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**Department of Defense  
Fiscal Year (FY) 2023 Budget Estimates**

April 2022



**Air Force**

*Justification Book Volume 1 of 1*

***Other Procurement, Air Force***

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Air Force • Budget Estimates FY 2023 • Procurement

**Volume 1 Table of Contents**

**Introduction and Explanation of Contents.....Volume 1 - iii**  
**Comptroller Exhibit P-1.....Volume 1 - v**  
**Master Line Item Table of Contents (by Appropriation then Line Number)..... Volume 1 - xxvii**  
**Master Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 1 - xxxiii**  
**Exhibit P-1M, Procurement Programs - Modification Summary..... Volume 1 - xxxvii**  
**Acronyms..... Volume 1 - xliii**  
**Exhibit P-40s..... Volume 1 - 1**

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### Appropriation Language Fiscal Year (FY) 2023 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, \$ 25,691,113,000 to remain available for obligation until September 30, 2025.

Footnotes:

**Fiscal Year (FY) 2023 Overseas Operations Costs funding accounted for in the Base budget include:**

- Operation INHERENT RESOLVE (OIR) \$0 thousands.
- European Deterrence Initiative (EDI) \$34,727 thousands.
- Other theater requirements and related missions \$0 thousands.

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2021 (Base + OCO) -----	FY 2022 Less Supplementals Enactment -----	FY 2022 Division B Division C P.L.117-43 Enactment* -----	FY 2022 Division B P.L.117-70 Enactment** -----
02. Vehicular Equipment	362,776	410,467		
03. Electronics and Telecommunications Equip	1,347,190	2,620,783		
04. Other Base Maintenance and Support Equip	22,063,164	23,573,276		
05. Spares and Repair Parts	21,511	10,553		
Total Other Procurement, Air Force	23,794,641	26,615,079		

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

\*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

\*\*Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2022 Division A P.L. 117-86 Enactment*** -----	FY 2022 Division N P.L. 117-103 Enactment**** -----	FY 2022 Total Supplemental Enactment -----	FY 2022 Total Enactment -----
02. Vehicular Equipment				410,467
03. Electronics and Telecommunications Equip				2,620,783
04. Other Base Maintenance and Support Equip		213,693	213,693	23,786,969
05. Spares and Repair Parts				10,553
Total Other Procurement, Air Force		213,693	213,693	26,828,772

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force  
FY 2023 President's Budget  
Exhibit P-1 FY 2023 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

25 Mar 2022

Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2023 Request -----
02. Vehicular Equipment	252,467
03. Electronics and Telecommunications Equip	2,038,414
04. Other Base Maintenance and Support Equip	23,376,050
05. Spares and Repair Parts	24,182
Total Other Procurement, Air Force	25,691,113

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment											
-----											
Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A		4,824		8,448					U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A		18,458		5,804					U
3	Cap Vehicles	A		1,800		1,800					U
4	Cargo and Utility Vehicles	A		46,304		57,459					U
Special Purpose Vehicles											
5	Joint Light Tactical Vehicle	A		56,694		90,584					U
6	Security And Tactical Vehicles	A		319		6,088					U
7	Special Purpose Vehicles	A		93,564		77,694					U
Fire Fighting Equipment											
8	Fire Fighting/Crash Rescue Vehicles	A		33,524		12,525					U
Materials Handling Equipment											
9	Materials Handling Vehicles	A		25,896		37,203					U
Base Maintenance Support											
10	Runway Snow Remov And Cleaning Equ	A		13,646		9,134					U
11	Base Maintenance Support Vehicles	A		67,744		103,728					U

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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment											
Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A							8,448		U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A							5,804		U
3	Cap Vehicles	A							1,800		U
4	Cargo and Utility Vehicles	A							57,459		U
Special Purpose Vehicles											
5	Joint Light Tactical Vehicle	A							90,584		U
6	Security And Tactical Vehicles	A							6,088		U
7	Special Purpose Vehicles	A							77,694		U
Fire Fighting Equipment											
8	Fire Fighting/Crash Rescue Vehicles	A							12,525		U
Materials Handling Equipment											
9	Materials Handling Vehicles	A							37,203		U
Base Maintenance Support											
10	Runway Snow Remov And Cleaning Equ	A							9,134		U
11	Base Maintenance Support Vehicles	A							103,728		U

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25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
----	-----	-----	-----	-----	-
Budget Activity 02: Vehicular Equipment -----					
Passenger Carrying Vehicles					
1	Passenger Carrying Vehicles	A		2,446	U
Cargo and Utility Vehicles					
2	Medium Tactical Vehicle	A		1,125	U
3	Cap Vehicles	A		999	U
4	Cargo and Utility Vehicles	A		35,220	U
Special Purpose Vehicles					
5	Joint Light Tactical Vehicle	A		60,461	U
6	Security And Tactical Vehicles	A		382	U
7	Special Purpose Vehicles	A		49,623	U
Fire Fighting Equipment					
8	Fire Fighting/Crash Rescue Vehicles	A		11,231	U
Materials Handling Equipment					
9	Materials Handling Vehicles	A		12,559	U
Base Maintenance Support					
10	Runway Snow Remov And Cleaning Equ	A		6,409	U
11	Base Maintenance Support Vehicles	A		72,012	U

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25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Cancelled Account Adjustments											
12	Cancelled Account Adjustments (Bpa	A		3							U
Total Vehicular Equipment			362,776		410,467						
Budget Activity 03: Electronics and Telecommunications Equip											
Comm Security Equipment (Comsec)											
13	Comsec Equipment	A	55,726		66,022						U
14	Strategic Microelectronic Supply System	A	35,000		885,051						U
Intelligence Programs											
15	International Intel Tech & Architectures	A	10,783		5,809						U
16	Intelligence Training Equipment	A	6,349		5,719						U
17	Intelligence Comm Equipment	A	31,771		25,844						U
Electronics Programs											
18	Air Traffic Control & Landing Sys	A	23,256		40,673						U
19	Battle Control System - Fixed		7,172		2,940						U
20	Theater Air Control Sys Improvemen	A	28,553		43,442						U
21	3D Expeditionary Long-Range Radar	A			96,186						U
22	Weather Observation Forecast	A	29,759		32,376						U
23	Strategic Command And Control	A	27,640		38,162						U

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25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Cancelled Account Adjustments											
12	Cancelled Account Adjustments (Bpa	A									U
Total Vehicular Equipment										410,467	
Budget Activity 03: Electronics and Telecommunications Equip											
-----											
Comm Security Equipment (Comsec)											
13	Comsec Equipment	A								66,022	U
14	Strategic Microelectronic Supply System	A								885,051	U
Intelligence Programs											
15	International Intel Tech & Architectures	A								5,809	U
16	Intelligence Training Equipment	A								5,719	U
17	Intelligence Comm Equipment	A								25,844	U
Electronics Programs											
18	Air Traffic Control & Landing Sys	A								40,673	U
19	Battle Control System - Fixed									2,940	U
20	Theater Air Control Sys Improvemen	A								43,442	U
21	3D Expeditionary Long-Range Radar	A								96,186	U
22	Weather Observation Forecast	A								32,376	U
23	Strategic Command And Control	A								38,162	U

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Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
----	-----	-----	-----	-----	-
Cancelled Account Adjustments					
12	Cancelled Account Adjustments (Bpa	A			U
Total Vehicular Equipment				252,467	
Budget Activity 03: Electronics and Telecommunications Equip					
-----					
Comm Security Equipment (Comsec)					
13	Comsec Equipment	A		96,851	U
14	Strategic Microelectronic Supply System	A		467,901	U
Intelligence Programs					
15	International Intel Tech & Architectures	A		7,043	U
16	Intelligence Training Equipment	A		2,424	U
17	Intelligence Comm Equipment	A		25,308	U
Electronics Programs					
18	Air Traffic Control & Landing Sys	A		65,531	U
19	Battle Control System - Fixed			1,597	U
20	Theater Air Control Sys Improvemen	A		9,611	U
21	3D Expeditionary Long-Range Radar	A		174,640	U
22	Weather Observation Forecast	A		20,658	U
23	Strategic Command And Control	A		93,351	U

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Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
24	Cheyenne Mountain Complex	A		8,199		8,258					U
25	Mission Planning Systems	A		13,911		14,717					U
26	Drug Interdiction Spt	A		2,950							U
27	Integrated Strat Plan & Analy Network (ISPAN)	A		4,404		4,845					U
Spcl Comm-Electronics Projects											
28	General Information Technology	A		35,964		74,447					U
29	Af Global Command & Control Sys	A		2,602		414					U
30	Battlefield Airborne Control Node (BACN)	A									U
31	Mobility Command And Control	A		10,541		10,619					U
32	Air Force Physical Security System	A		139,649		101,896					U
35	Combat Training Ranges	A		193,185		343,088					U
36	Minimum Essential Emergency Comm N	A		21,664		65,326					U
37	Wide Area Surveillance (WAS)	A		47,538		38,794					U
38	C3 Countermeasures	A		89,906		119,635					U
39	Integrated Personnel and Pay System	A				15,240					U
40	GCSS-AF Fos	A				3,959					U
41	Defense Enterprise Accounting & Mgt Sys	A		1,078		3,103					U
42	Maintenance Repair & Overhaul Initiative	A				4,387					U
43	Theater Battle Mgt C2 System	A		1,982		4,052					U

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Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
24	Cheyenne Mountain Complex	A							8,258		U
25	Mission Planning Systems	A							14,717		U
26	Drug Interdiction Spt	A									U
27	Integrated Strat Plan & Analy Network (ISPAN)	A							4,845		U
Spcl Comm-Electronics Projects											
28	General Information Technology	A							74,447		U
29	Af Global Command & Control Sys	A							414		U
30	Battlefield Airborne Control Node (BACN)	A									U
31	Mobility Command And Control	A							10,619		U
32	Air Force Physical Security System	A							101,896		U
35	Combat Training Ranges	A							343,088		U
36	Minimum Essential Emergency Comm N	A							65,326		U
37	Wide Area Surveillance (WAS)	A							38,794		U
38	C3 Countermeasures	A							119,635		U
39	Integrated Personnel and Pay System	A							15,240		U
40	GCSS-AF Fos	A							3,959		U
41	Defense Enterprise Accounting & Mgt Sys	A							3,103		U
42	Maintenance Repair & Overhaul Initiative	A							4,387		U
43	Theater Battle Mgt C2 System	A							4,052		U

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Department of the Air Force  
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
----	-----	-----	-----	-----	-
24	Cheyenne Mountain Complex	A		6,118	U
25	Mission Planning Systems	A		13,947	U
26	Drug Interdiction Spt	A			U
27	Integrated Strat Plan & Analy Network (ISPAN)	A			U
Spcl Comm-Electronics Projects					
28	General Information Technology	A		101,517	U
29	Af Global Command & Control Sys	A		2,487	U
30	Battlefield Airborne Control Node (BACN)	A		32,807	U
31	Mobility Command And Control	A		10,210	U
32	Air Force Physical Security System	A			U
35	Combat Training Ranges	A		134,213	U
36	Minimum Essential Emergency Comm N	A		66,294	U
37	Wide Area Surveillance (WAS)	A		29,518	U
38	C3 Countermeasures	A		55,324	U
39	Integrated Personnel and Pay System	A			U
40	GCSS-AF Fos	A		786	U
41	Defense Enterprise Accounting & Mgt Sys	A			U
42	Maintenance Repair & Overhaul Initiative	A		248	U
43	Theater Battle Mgt C2 System	A		275	U

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Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Less Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
44	Air & Space Operations Center (AOC)	A		15,383		23,019					U
45	Spectrum Relocation Fund	A		-341							U
Air Force Communications											
46	Base Information Transpt Infrast (BITI) Wired	A		19,144		58,499					U
47	AFNET	A		84,515		65,354					U
48	Joint Communications Support Element (JCSE)	A		6,185		4,377					U
49	USCENTCOM	A		19,649		18,101					U
50	USSTRATCOM	A		4,337		4,226					U
Organization and Base											
51	Tactical C-E Equipment	A		123,613		157,817					U
52	Radio Equipment	A		13,840		14,232					U
53	CCTV/Audiovisual Equipment	A		5,255							U
54	Base Comm Infrastructure	A		205,419		201,547					U
Modifications											
55	Comm Elect Mods	A		20,609		18,607					U
999	Classified Programs										U
Total Electronics and Telecommunications Equip				1,347,190		2,620,783					

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Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
44	Air & Space Operations Center (AOC)	A							23,019		U
45	Spectrum Relocation Fund	A									U
Air Force Communications											
46	Base Information Transpt Infrast (BITI) Wired	A							58,499		U
47	AFNET	A							65,354		U
48	Joint Communications Support Element (JCSE)	A							4,377		U
49	USCENTCOM	A							18,101		U
50	USSTRATCOM	A							4,226		U
Organization and Base											
51	Tactical C-E Equipment	A							157,817		U
52	Radio Equipment	A							14,232		U
53	CCTV/Audiovisual Equipment	A									U
54	Base Comm Infrastructure	A							201,547		U
Modifications											
55	Comm Elect Mods	A							18,607		U
999	Classified Programs										U
Total Electronics and Telecommunications Equip									2,620,783		

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Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
----	-----	-----	-----	-----	-----
44	Air & Space Operations Center (AOC)	A		2,611	U
45	Spectrum Relocation Fund	A			U
Air Force Communications					
46	Base Information Transpt Infrast (BITI) Wired	A		29,791	U
47	AFNET	A		83,320	U
48	Joint Communications Support Element (JCSE)	A		5,199	U
49	USCENTCOM	A		11,896	U
50	USSTRATCOM	A		4,619	U
Organization and Base					
51	Tactical C-E Equipment	A		120,050	U
52	Radio Equipment	A		14,053	U
53	CCTV/Audiovisual Equipment	A			U
54	Base Comm Infrastructure	A		91,313	U
Modifications					
55	Comm Elect Mods	A		167,419	U
999	Classified Programs			89,484	U
Total Electronics and Telecommunications Equip				2,038,414	

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Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 04: Other Base Maintenance and Support Equip											
-----											
Personal Safety & Rescue Equip											
56	Personal Safety and Rescue Equipment	A		53,589		69,787					U
Depot Plant+Mtrls Handling Eq											
57	Power Conditioning Equipment	A		11,704		11,274					U
58	Mechanized Material Handling Equip	A		12,110		8,594					U
Base Support Equipment											
59	Base Procured Equipment	A		18,392		31,000					U
60	Engineering and EOD Equipment	A		20,872		32,139					U
61	Mobility Equipment	A		51,960		63,814					U
62	Fuels Support Equipment (FSE)	A		11,378		17,928					U
63	Base Maintenance and Support Equipment	A		72,444		39,067					U
Special Support Projects											
65	DARP RC135	A		27,164		27,359					U
66	DCGS-AF	A		140,228		261,070					U
70	Special Update Program	A		731,941		936,652					U
999	Classified Programs			20,911,382		22,074,592					U
Total Other Base Maintenance and Support Equip				22,063,164		23,573,276					

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

\*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

\*\*Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 04: Other Base Maintenance and Support Equip											
-----											
Personal Safety & Rescue Equip											
56	Personal Safety and Rescue Equipment	A							69,787		U
Depot Plant+Mtrls Handling Eq											
57	Power Conditioning Equipment	A							11,274		U
58	Mechanized Material Handling Equip	A							8,594		U
Base Support Equipment											
59	Base Procured Equipment	A							31,000		U
60	Engineering and EOD Equipment	A							32,139		U
61	Mobility Equipment	A							63,814		U
62	Fuels Support Equipment (FSE)	A							17,928		U
63	Base Maintenance and Support Equipment	A							39,067		U
Special Support Projects											
65	DARP RC135	A							27,359		U
66	DCGS-AF	A							261,070		U
70	Special Update Program	A							936,652		U
999	Classified Programs					213,693		213,693	22,288,285		U
Total Other Base Maintenance and Support Equip						213,693		213,693	23,786,969		

P-123BBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45  
 \*\*\*Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).  
 \*\*\*\*Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
----	-----	-----	-----	-----	-
Budget Activity 04: Other Base Maintenance and Support Equip -----					
Personal Safety & Rescue Equip					
56	Personal Safety and Rescue Equipment	A		92,995	U
Depot Plant+Mtrls Handling Eq					
57	Power Conditioning Equipment	A		12,199	U
58	Mechanized Material Handling Equip	A		9,326	U
Base Support Equipment					
59	Base Procured Equipment	A		52,890	U
60	Engineering and EOD Equipment	A		231,552	U
61	Mobility Equipment	A		28,758	U
62	Fuels Support Equipment (FSE)	A		21,740	U
63	Base Maintenance and Support Equipment	A			U
Special Support Projects					
65	DARP RC135	A		28,153	U
66	DCGS-AF	A		217,713	U
70	Special Update Program	A		978,499	U
999	Classified Programs			21,702,225	U
Total Other Base Maintenance and Support Equip				23,376,050	

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 05: Spares and Repair Parts											
-----											
Spares and Repair Parts											
71	Spares and Repair Parts (Cyber)	A		1,664		978					U
72	Spares And Repair Parts	A		19,847		9,575					U
				-----		-----		-----		-----	
Total Spares and Repair Parts				21,511		10,553					
				-----		-----		-----		-----	
Total Other Procurement, Air Force				23,794,641		26,615,079					

P-123BPB: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

\*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

\*\*Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 05: Spares and Repair Parts											
-----											
Spares and Repair Parts											
71	Spares and Repair Parts (Cyber)	A								978	U
72	Spares And Repair Parts	A								9,575	U
Total Spares and Repair Parts			-----	-----	-----	-----	-----	-----	-----	10,553	
Total Other Procurement, Air Force			-----	-----	-----	-----	-----	-----	-----	26,828,772	

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45  
 \*\*\*Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).  
 \*\*\*\*Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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Department of the Air Force  
 FY 2023 President's Budget  
 Exhibit P-1 FY 2023 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
Budget Activity 05: Spares and Repair Parts					
-----					
Spares and Repair Parts					
71	Spares and Repair Parts (Cyber)	A		1,007	U
72	Spares And Repair Parts	A		23,175	U
			-----		
Total Spares and Repair Parts			24,182		
			-----		
Total Other Procurement, Air Force			25,691,113		

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Air Force • Budget Estimates FY 2023 • Procurement

**Master Line Item Table of Contents (by Appropriation then Line Number)**

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

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
1	02	01	821800	Passenger Carrying Vehicles.....	Volume 1 - 1
2	02	02	822230	Medium Tactical Vehicle.....	Volume 1 - 3
3	02	02	822910	Cap Vehicles.....	Volume 1 - 5
4	02	02	822990	Cargo and Utility Vehicles.....	Volume 1 - 7
5	02	03	823210	Joint Light Tactical Vehicle.....	Volume 1 - 21
6	02	03	823230	Security And Tactical Vehicles.....	Volume 1 - 27
7	02	03	823990	Special Purpose Vehicles.....	Volume 1 - 29
8	02	04	824010	Fire Fighting/Crash Rescue Vehicles.....	Volume 1 - 43
9	02	05	825990	Materials Handling Vehicles.....	Volume 1 - 49
10	02	06	826210	Runway Snow Remov And Cleaning Equ.....	Volume 1 - 57
11	02	06	826990	Base Maintenance Support Vehicles.....	Volume 1 - 63

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Air Force • Budget Estimates FY 2023 • Procurement

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

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
13	03	01	831010	Comsec Equipment.....	Volume 1 - 77
14	03	01	831020	Strategic Microelectronic Supply System.....	Volume 1 - 91
15	03	02	832050	International Intel Tech & Architectures.....	Volume 1 - 93
16	03	02	832060	Intelligence Training Equipment.....	Volume 1 - 101
17	03	02	832070	832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT.....	Volume 1 - 105
18	03	03	833010	Air Traffic Control and Landing Sys.....	Volume 1 - 143
19	03	03	833030	Battle Control System - Fixed.....	Volume 1 - 189
20	03	03	833040	Theater Air Control Sys Improvemen.....	Volume 1 - 201
21	03	03	833060	3D Expeditionary Long-Range Radar.....	Volume 1 - 211
22	03	03	833070	Weather Observation Forecast.....	Volume 1 - 219
23	03	03	833140	Strategic Command And Control.....	Volume 1 - 247
24	03	03	833160	Cheyenne Mountain Complex.....	Volume 1 - 281
25	03	03	833170	Mission Planning Systems.....	Volume 1 - 289
26	03	03	833440	Drug Interdiction Spt.....	Volume 1 - 297
27	03	03	833560	Integrated Strat Plan & Analy Network (ISPAN).....	Volume 1 - 301
28	03	04	834010	General Information Technology.....	Volume 1 - 309

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Air Force • Budget Estimates FY 2023 • Procurement

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

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
29	03	04	834040	Af Global Command & Control Sys.....	Volume 1 - 393
30	03	04	834050	Battlefield Airborne Communication Node (BACN).....	Volume 1 - 399
31	03	04	834070	Mobility Command And Control.....	Volume 1 - 405
32	03	04	834130	Air Force Physical Security System.....	Volume 1 - 413
35	03	04	834190	Combat Training Ranges.....	Volume 1 - 443
36	03	04	834210	Minimum Essential Emergency Comm N.....	Volume 1 - 459
37	03	04	834240	Wide Area Surveillance (WAS).....	Volume 1 - 471
38	03	04	834320	C3 Countermeasures.....	Volume 1 - 479
39	03	04	834410	Integrated Personnel and Pay System.....	Volume 1 - 515
40	03	04	834430	GCSS-AF Fos.....	Volume 1 - 521
41	03	04	834470	Defense Enterprise Accounting & Mgt Sys.....	Volume 1 - 531
42	03	04	834480	Maintenance Repair & Overhaul Initiative.....	Volume 1 - 539
43	03	04	834520	Theater Battle Mgt C2 System.....	Volume 1 - 545
44	03	04	834530	Air & Space Operations Center (AOC).....	Volume 1 - 555
46	03	05	835060	Base Information Transpt Infrast (BITI) Wired.....	Volume 1 - 565
47	03	05	835080	AFNET.....	Volume 1 - 571
48	03	05	835110	Joint Communications Support Element (JCSE).....	Volume 1 - 577
49	03	05	835140	USCENTCOM.....	Volume 1 - 583

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Air Force • Budget Estimates FY 2023 • Procurement

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

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
50	03	05	835160	USSTRATCOM.....	Volume 1 - 597
51	03	07	837100	Tactical C-E Equipment.....	Volume 1 - 609
52	03	07	837190	Radio Equipment.....	Volume 1 - 643
53	03	07	837240	837240 CCTV/AUDIOVISUAL EQUIPMENT.....	Volume 1 - 653
54	03	07	837300	Base Comm Infrastructure.....	Volume 1 - 657
55	03	08	838010	Comm Elect Mods.....	Volume 1 - 721

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

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
56	04	02	842990	Personal Safety and Rescue Equipment.....	Volume 1 - 741
57	04	03	843040	Power Conditioning Equipment.....	Volume 1 - 765
58	04	03	843050	Mechanized Material Handling Equip.....	Volume 1 - 773
59	04	05	845010	Base Procured Equipment.....	Volume 1 - 783
60	04	05	845100	Engineering and EOD Equipment.....	Volume 1 - 793
61	04	05	845420	Mobility Equipment.....	Volume 1 - 805
62	04	05	845550	Fuels Support Equipment (FSE).....	Volume 1 - 815

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Air Force • Budget Estimates FY 2023 • Procurement

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

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
63	04	05	845990	Base Maintenance and Support Equipment.....	Volume 1 - 825
65	04	06	846070	DARP RC135.....	Volume 1 - 837
66	04	06	846080	DCGS-AF.....	Volume 1 - 843
70	04	06	846510	Special Update Program.....	Volume 1 - 865

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

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
71	05	01	861350	Spares and Repair Parts (Cyber).....	Volume 1 - 867
72	05	01	861900	Spares And Repair Parts.....	Volume 1 - 869

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Air Force • Budget Estimates FY 2023 • Procurement

**Master Line Item Table of Contents (Alphabetically by Line Item Title)**

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
3D Expeditionary Long-Range Radar	833060	21	03	03.....	Volume 1 - 211
832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	832070	17	03	02.....	Volume 1 - 105
837240 CCTV/AUDIOVISUAL EQUIPMENT	837240	53	03	07.....	Volume 1 - 653
AFNET	835080	47	03	05.....	Volume 1 - 571
Af Global Command & Control Sys	834040	29	03	04.....	Volume 1 - 393
Air & Space Operations Center (AOC)	834530	44	03	04.....	Volume 1 - 555
Air Force Physical Security System	834130	32	03	04.....	Volume 1 - 413
Air Traffic Control and Landing Sys	833010	18	03	03.....	Volume 1 - 143
Base Comm Infrastructure	837300	54	03	07.....	Volume 1 - 657
Base Information Transpnt Infrast (BITI) Wired	835060	46	03	05.....	Volume 1 - 565
Base Maintenance Support Vehicles	826990	11	02	06.....	Volume 1 - 63
Base Maintenance and Support Equipment	845990	63	04	05.....	Volume 1 - 825
Base Procured Equipment	845010	59	04	05.....	Volume 1 - 783
Battle Control System - Fixed	833030	19	03	03.....	Volume 1 - 189
Battlefield Airborne Communication Node (BACN)	834050	30	03	04.....	Volume 1 - 399
C3 Countermeasures	834320	38	03	04.....	Volume 1 - 479
Cap Vehicles	822910	3	02	02.....	Volume 1 - 5

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Air Force • Budget Estimates FY 2023 • Procurement

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
Cargo and Utility Vehicles	822990	4	02	02.....	Volume 1 - 7
Cheyenne Mountain Complex	833160	24	03	03.....	Volume 1 - 281
Combat Training Ranges	834190	35	03	04.....	Volume 1 - 443
Comm Elect Mods	838010	55	03	08.....	Volume 1 - 721
Comsec Equipment	831010	13	03	01.....	Volume 1 - 77
DARP RC135	846070	65	04	06.....	Volume 1 - 837
DCGS-AF	846080	66	04	06.....	Volume 1 - 843
Defense Enterprise Accounting & Mgt Sys	834470	41	03	04.....	Volume 1 - 531
Drug Interdiction Spt	833440	26	03	03.....	Volume 1 - 297
Engineering and EOD Equipment	845100	60	04	05.....	Volume 1 - 793
Fire Fighting/Crash Rescue Vehicles	824010	8	02	04.....	Volume 1 - 43
Fuels Support Equipment (FSE)	845550	62	04	05.....	Volume 1 - 815
GCSS-AF Fos	834430	40	03	04.....	Volume 1 - 521
General Information Technology	834010	28	03	04.....	Volume 1 - 309
Integrated Personnel and Pay System	834410	39	03	04.....	Volume 1 - 515
Integrated Strat Plan & Analy Network (ISPAN)	833560	27	03	03.....	Volume 1 - 301
Intelligence Training Equipment	832060	16	03	02.....	Volume 1 - 101
International Intel Tech & Architectures	832050	15	03	02.....	Volume 1 - 93
Joint Communications Support Element (JCSE)	835110	48	03	05.....	Volume 1 - 577
Joint Light Tactical Vehicle	823210	5	02	03.....	Volume 1 - 21

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Air Force • Budget Estimates FY 2023 • Procurement

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
Maintenance Repair & Overhaul Initiative	834480	42	03	04.....	Volume 1 - 539
Materials Handling Vehicles	825990	9	02	05.....	Volume 1 - 49
Mechanized Material Handling Equip	843050	58	04	03.....	Volume 1 - 773
Medium Tactical Vehicle	822230	2	02	02.....	Volume 1 - 3
Minimum Essential Emergency Comm N	834210	36	03	04.....	Volume 1 - 459
Mission Planning Systems	833170	25	03	03.....	Volume 1 - 289
Mobility Command And Control	834070	31	03	04.....	Volume 1 - 405
Mobility Equipment	845420	61	04	05.....	Volume 1 - 805
Passenger Carrying Vehicles	821800	1	02	01.....	Volume 1 - 1
Personal Safety and Rescue Equipment	842990	56	04	02.....	Volume 1 - 741
Power Conditioning Equipment	843040	57	04	03.....	Volume 1 - 765
Radio Equipment	837190	52	03	07.....	Volume 1 - 643
Runway Snow Remov And Cleaning Equ	826210	10	02	06.....	Volume 1 - 57
Security And Tactical Vehicles	823230	6	02	03.....	Volume 1 - 27
Spares And Repair Parts	861900	72	05	01.....	Volume 1 - 869
Spares and Repair Parts (Cyber)	861350	71	05	01.....	Volume 1 - 867
Special Purpose Vehicles	823990	7	02	03.....	Volume 1 - 29
Special Update Program	846510	70	04	06.....	Volume 1 - 865
Strategic Command And Control	833140	23	03	03.....	Volume 1 - 247
Strategic Microelectronic Supply System	831020	14	03	01.....	Volume 1 - 91

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Air Force • Budget Estimates FY 2023 • Procurement

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
Tactical C-E Equipment	837100	51	03	07.....	Volume 1 - 609
Theater Air Control Sys Improvemen	833040	20	03	03.....	Volume 1 - 201
Theater Battle Mgt C2 System	834520	43	03	04.....	Volume 1 - 545
USCENTCOM	835140	49	03	05.....	Volume 1 - 583
USSTRATCOM	835160	50	03	05.....	Volume 1 - 597
Weather Observation Forecast	833070	22	03	03.....	Volume 1 - 219
Wide Area Surveillance (WAS)	834240	37	03	04.....	Volume 1 - 471

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Air Force • Budget Estimates FY 2023 • Procurement  
Exhibit P-1M, Procurement Programs - Modification Summary  
(Listing by Model)

**Lookup Matrix by Model**

<b>Model:</b>	CheyenneMountainComplex	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
006	MCCC Upgrade Block 04	No
007	Mobile Consolidated Command Center Upgrade Block 05	No

<b>Model:</b>	Bases	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
4	IBDSS-2	No
5	IBDSS-3	No

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

<b>Model:</b>	GASNTi2	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
2	GASNTi2	No

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Air Force • Budget Estimates FY 2023 • Procurement  
Exhibit P-1M, Procurement Programs - Modification Summary  
(Listing by Model)

<b>Model:</b>	PRC2	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	PRC2	No

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

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

<b>Model:</b>	ATCALs	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	ATCALs Low Cost Mods (PE 0305114F)	No

<b>Model:</b>	NAS	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	NAS Low Cost Mods	No
3	National Airspace System (NAS) Mod 4	No

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Air Force • Budget Estimates FY 2023 • Procurement  
Exhibit P-1M, Procurement Programs - Modification Summary  
(Listing by Model)

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

<b>Model:</b> 0305208		
<b>P-3a Individual Modifications</b>		
Modification Number	Modification Title	Applies to Multiple Models
1	DGS-5 (Hawaii) Upgrade	No

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

<b>Model:</b> 0305208F		
<b>P-3a Individual Modifications</b>		
Modification Number	Modification Title	Applies to Multiple Models
3	Signals Intelligence (SIGINT)	No
4	Multi-Intelligence (Multi-INT)	No
5	Network Infrastructure Transformation	No

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Air Force • Budget Estimates FY 2023 • Procurement  
Exhibit P-1M, Procurement Programs - Modification Summary  
(Funding for Modifications)

**Funding (\$ M)**

P-3a Modification Title	PYS	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
<b>Exhibit P-3a</b>										
MCCC Upgrade Block 04	0.000	7.999	0.200	0.000	-	0.000	0.000	0.000	-	-
Mobile Consolidated Command Center Upgrade Block 05	-	-	8.058	6.118	0.000	6.118	8.198	0.000	0.000	-
IBDSS-2	78.953	37.477	44.812	0.000	0.000	0.000	0.000	-	-	-
IBDSS-3	-	-	-	49.370	0.000	49.370	83.386	97.102	-	-
GASNTi1	273.548	21.664	65.326	52.209	0.000	52.209	43.208	26.482	12.494	0.010
GASNTi2	-	0.000	0.000	14.085	0.000	14.085	43.635	81.754	55.128	0.000
PRC2	0.323	0.347	0.369	0.275	0.000	0.275	0.399	0.432	0.444	-
BITI Mod/Recaps	74.322	19.144	58.499	29.791	0.000	29.791	143.997	155.502	66.022	67.322
AFINC/CSCS WS 0303089	151.769	84.515	65.354	83.320	0.000	83.320	96.704	45.567	47.041	48.074
ATCALs Low Cost Mods (PE 0305114F)	1.858	1.882	1.890	1.817	0.000	1.817	1.877	2.030	2.088	2.130
NAS Low Cost Mods	1.854	1.892	1.850	1.777	0.000	1.777	1.834	1.986	2.043	2.083
National Airspace System (NAS) Mod 4	-	1.776	0.598	0.576	0.000	0.576	0.594	0.641	0.659	0.673
DARP Modification	153.986	27.164	27.359	28.153	0.000	28.153	28.798	29.430	30.319	30.987
DGS-5 (Hawaii) Upgrade	-	-	9.700	7.500	0.000	7.500	0.000	0.000	0.000	0.000
GEOINT Transformation (GEOINT)	-	42.502	37.399	40.501	0.000	40.501	37.053	9.368	19.762	71.460
Signals Intelligence (SIGINT)	-	35.189	24.835	27.228	0.000	27.228	37.772	8.876	18.203	28.641
Multi-Intelligence (Multi-INT)	-	26.783	41.244	23.763	0.000	23.763	17.414	7.409	17.003	23.727
Network Infrastructure Transformation	-	13.466	23.118	38.979	0.000	38.979	41.306	8.683	19.669	19.855
DCGS-AF	-	22.288	124.774	79.742	0.000	79.742	73.113	33.234	29.970	30.630
<b>Totals (Total Obligation Authority)</b>										

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Air Force • Budget Estimates FY 2023 • Procurement  
Exhibit P-1M, Procurement Programs - Modification Summary  
(Funding for Modifications)

P-3a Modification Title	PYS	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Total Obligation Authority	736.613	344.088	535.385	485.204	0.000	485.204	659.288	508.496	320.845	325.592

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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
EWASIP	- 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
AFCEA	- 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 2023 Air Force **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	4.824	8.448	2.446	-	2.446	7.133	6.816	7.023	7.177	-	43.867
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	4.824	8.448	2.446	-	2.446	7.133	6.816	7.023	7.177	-	43.867
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>4.824</b>	<b>8.448</b>	<b>2.446</b>	-	<b>2.446</b>	<b>7.133</b>	<b>6.816</b>	<b>7.023</b>	<b>7.177</b>	-	<b>43.867</b>

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

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

**Description:**

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

FY22 funding totals include 1.210M requested for 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.

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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: Passenger Carrying Vehicles		<b>P-1 Line Item Number / Title:</b> 821800 / Passenger Carrying Vehicles
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Funding for this exhibit contained in PEs: 0207597F, 0305202F, 0507831F, 0502831F, 0702831F.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	71	79	24	0	24	-	-	-	-
	Total Obligation Authority	4.576	8.173	2.193	0.000	2.193	-	-	-	-
AFNG	Quantity	4	4	4	0	4	-	-	-	-
	Total Obligation Authority	0.188	0.210	0.188	0.000	0.188	-	-	-	-
AFR	Quantity	2	3	2	0	2	-	-	-	-
	Total Obligation Authority	0.060	0.065	0.065	0.000	0.065	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>77</b>	<b>86</b>	<b>30</b>	<b>0</b>	<b>30</b>	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>4.824</b>	<b>8.448</b>	<b>2.446</b>	<b>0.000</b>	<b>2.446</b>	-	-	-	-

**Justification:**  
 FY23 procurement dollars in the amount of 2.446M will procure, but not be limited to, 30 vehicles in support of installation and unit mission requirements for Air Force personnel.

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-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	18.458	5.804	1.125	-	1.125	4.321	5.026	5.178	5.292	-	45.204
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	18.458	5.804	1.125	-	1.125	4.321	5.026	5.178	5.292	-	45.204
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>18.458</b>	<b>5.804</b>	<b>1.125</b>	-	<b>1.125</b>	<b>4.321</b>	<b>5.026</b>	<b>5.178</b>	<b>5.292</b>	-	<b>45.204</b>

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

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

**Description:**

FY21 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles		<b>P-1 Line Item Number / Title:</b> 822230 / Medium Tactical Vehicle
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Funding for the exhibit contained in PEs 0507831F, 0502831F, 0702831F, 0305114F.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	98	28	5	0	5	-	-	-	-
	Total Obligation Authority	15.986	3.336	0.466	0.000	0.466	-	-	-	-
AFNG	Quantity	10	11	2	0	2	-	-	-	-
	Total Obligation Authority	1.803	1.801	0.296	0.000	0.296	-	-	-	-
AFR	Quantity	9	5	4	0	4	-	-	-	-
	Total Obligation Authority	0.669	0.667	0.363	0.000	0.363	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>117</b>	<b>44</b>	<b>11</b>	<b>0</b>	<b>11</b>	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>18.458</b>	<b>5.804</b>	<b>1.125</b>	<b>0.000</b>	<b>1.125</b>	-	-	-	-

**Justification:**  
 FY23 procurement dollars in the amount of 1.125M will procure, but not be limited to, 11 vehicles in support of installation and unit mission requirements for Air Force personnel.

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-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	1.800	1.800	0.999	-	0.999	1.024	1.147	1.182	1.208	-	9.160
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1.800	1.800	0.999	-	0.999	1.024	1.147	1.182	1.208	-	9.160
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>1.800</b>	<b>1.800</b>	<b>0.999</b>	-	<b>0.999</b>	<b>1.024</b>	<b>1.147</b>	<b>1.182</b>	<b>1.208</b>	-	<b>9.160</b>

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

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

**Description:**

The 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:**

FY23 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 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	46.304	57.459	35.220	-	35.220	47.408	35.765	35.637	35.372	-	293.165
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	46.304	57.459	35.220	-	35.220	47.408	35.765	35.637	35.372	-	293.165
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>46.304</b>	<b>57.459</b>	<b>35.220</b>	-	<b>35.220</b>	<b>47.408</b>	<b>35.765</b>	<b>35.637</b>	<b>35.372</b>	-	<b>293.165</b>

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

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

**Description:**

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

FY22 funding totals include 5.737M requested for 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.

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, 0305114F, 0507831F, 0502831F, 0702831F.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	912	1,227	511	0	511	-	-	-	-
	Total Obligation Authority	36.710	46.277	25.696	0.000	25.696	-	-	-	-
AFNG	Quantity	146	231	171	0	171	-	-	-	-
	Total Obligation Authority	6.936	8.478	7.009	0.000	7.009	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AFR	Quantity	61	84	71	0	71	-	-	-	-
	Total Obligation Authority	2.658	2.704	2.515	0.000	2.515	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1,119</b>	<b>1,542</b>	<b>753</b>	<b>0</b>	<b>753</b>	-	-	-	-
	<b>Total Obligation Authority</b>	<b>46.304</b>	<b>57.459</b>	<b>35.220</b>	<b>0.000</b>	<b>35.220</b>	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 46.304	- / 57.459	- / 35.220	- / -	- / 35.220
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 46.304	- / 57.459	- / 35.220	- / -	- / 35.220

\*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:**  
 FY23 procurement dollars in the amount of 35.2200M will procure, but not be limited to, 753 vehicles in support of installation and unit mission requirements for Air Force personnel.

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 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
TRK 1/2 Crew Cab 4x4 PU (2320-01-484-6745)	A		-	-	-	0.023	23	0.529	0.023	54	1.244	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		21	0.483		43	0.989		-	-		-	-		-	
AFNG				-	-		2	0.046		11	0.255		-	-		-	-		-	
TRUCK TRACTORS	A		-	-	-	-	-	-	-	-	-	0.131	74	9.681	-	-	-	0.131	74	9.681
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		59	7.718		-	-		59	7.718
AFNG				-	-		-	-		-	-		13	1.701		-	-		13	1.701
AFR				-	-		-	-		-	-		2	0.262		-	-		2	0.262
PASSENGER CARRYING TRUCKS 4X2	A		-	-	-	-	-	-	-	-	-	0.024	139	3.403	-	-	-	0.024	139	3.403
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		91	2.228		-	-		91	2.228
AFNG				-	-		-	-		-	-		33	0.808		-	-		33	0.808
AFR				-	-		-	-		-	-		15	0.367		-	-		15	0.367
PASSENGER CARRYING TRUCKS 4X4	A		-	-	-	-	-	-	-	-	-	0.033	151	5.044	-	-	-	0.033	151	5.044
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		76	2.539		-	-		76	2.539
AFNG				-	-		-	-		-	-		62	2.071		-	-		62	2.071
AFR				-	-		-	-		-	-		13	0.434		-	-		13	0.434
TRUCKS, SPECIAL DESIGN, 4X4	A		-	-	-	-	-	-	-	-	-	0.062	20	1.234	-	-	-	0.062	20	1.234
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		16	0.987		-	-		16	0.987
AFNG				-	-		-	-		-	-		4	0.247		-	-		4	0.247
VANS / MULTISTOPS	A		-	-	-	-	-	-	-	-	-	0.031	79	2.431	-	-	-	0.031	79	2.431
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		57	1.754		-	-		57	1.754
AFNG				-	-		-	-		-	-		7	0.215		-	-		7	0.215
AFR				-	-		-	-		-	-		15	0.462		-	-		15	0.462
TRUCK CARRYALLS	A		-	-	-	-	-	-	-	-	-	0.029	60	1.763	-	-	-	0.029	60	1.763
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		44	1.293		-	-		44	1.293



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		-	-		-		13	0.382		-	-		13	0.382	
AFR				-	-		-	-		-		3	0.088		-	-		3	0.088	
TRUCK STAKE AND PLATFORMS	A		-	-	-	-	-	-	-	-	0.038	74	2.845	-	-	-	0.038	74	2.845	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		39	1.499		-	-		39	1.499	
AFNG				-	-		-	-		-		20	0.769		-	-		20	0.769	
AFR				-	-		-	-		-		15	0.577		-	-		15	0.577	
SPORTS UTILITY VEHICLES	A		-	-	-	-	-	-	-	-	0.024	22	0.529	-	-	-	0.024	22	0.529	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		19	0.457		-	-		19	0.457	
AFNG				-	-		-	-		-		1	0.024		-	-		1	0.024	
AFR				-	-		-	-		-		2	0.048		-	-		2	0.048	
ARMORED SPORTS UTILITY VEHICLES	A		-	-	-	-	-	-	-	-	0.200	15	3.000	-	-	-	0.200	15	3.000	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		15	3.000		-	-		15	3.000	
LAW ENFORCEMENT PATROL & MILITARY WORKING DOG VEHICLES	A		-	-	-	-	-	-	-	-	0.049	39	1.928	-	-	-	0.049	39	1.928	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		33	1.631		-	-		33	1.631	
AFNG				-	-		-	-		-		4	0.198		-	-		4	0.198	
AFR				-	-		-	-		-		2	0.099		-	-		2	0.099	
TRAILERS, SMALL	A		-	-	-	-	-	-	-	-	0.016	7	0.112	-	-	-	0.016	7	0.112	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		6	0.096		-	-		6	0.096	
AFNG				-	-		-	-		-		1	0.016		-	-		1	0.016	
TRAILERS, LARGE	A		-	-	-	-	-	-	-	-	0.044	73	3.246	-	-	-	0.044	73	3.246	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		56	2.490		-	-		56	2.490	
AFNG				-	-		-	-		-		13	0.578		-	-		13	0.578	
AFR				-	-		-	-		-		4	0.178		-	-		4	0.178	
TRK CGO 4X2 4DR 17-20999G (2320-00-879-0680)	A		-	-	-	-	-	-	0.126	3	0.378	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		-	-		2	0.252		-	-		-	-		-	-
AFNG				-	-		-	-		1	0.126		-	-		-	-		-	-
TRK 1/2 TON EXTENDED CAB 4X4 (2320-01-462-7874)	A		-	-	-		-	-	0.041	4	0.165	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.124		-	-		-	-		-	-
AFNG				-	-		-	-		1	0.041		-	-		-	-		-	-
TRK TRAC 4X2 24M-44500G (2320-01-663-0742)	A		-	-	-	0.100	2	0.199	0.109	2	0.218	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.199		1	0.109		-	-		-	-		-	-
AFNG				-	-		-	-		1	0.109		-	-		-	-		-	-
SUV, PATROL MWD UP-FIT (2320-01-671-3641)	A		-	-	-	0.045	10	0.450	0.049	16	0.776	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		10	0.450		16	0.776		-	-		-	-		-	-
PAYLOAD TRANSPORT TRUCK (2320-01-529-5420)	A		-	-	-	0.165	2	0.330	0.165	1	0.165	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.330		1	0.165		-	-		-	-		-	-
TRL VAN 48 FT HARD SIDE (2330-01-627-5975)	A		-	-	-	0.052	2	0.104	0.052	1	0.052	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.104		1	0.052		-	-		-	-		-	-
SUV DOD PATROL UP-FIT (2320-01-670-6148)	A		-	-	-	0.042	7	0.297	0.046	12	0.552	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		7	0.297		12	0.552		-	-		-	-		-	-
TRK MLTSP 4X2 12500-16999GVW (2320-01-090-7900)	A		-	-	-	0.080	12	0.959	0.086	3	0.259	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		12	0.959		3	0.259		-	-		-	-		-	-
TRK STK 4X2 2.5 TON (2320-01-064-8540)	A		-	-	-	0.066	2	0.131	0.103	1	0.103	-	-	-	-	-	-	-	-	-

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		2	0.131		1	0.103		-	-		-	-		-	
TRK PU 4DR 4X4 F450 (2320-01-501-6635)	A		-	-	-	0.053	19	1.006	0.056	26	1.451	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		8	0.424		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	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		5	0.900		3	0.540		-	-		-	-		-	
TRK S&P 1000GVW 4X4 (2320-01-302-2698)	A		-	-	-	0.039	3	0.117	0.039	3	0.117	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		3	0.117		3	0.117		-	-		-	-		-	
4X2 4DR SUV (2320-01-484-8859)	A		-	-	-	0.019	13	0.252	0.019	1	0.019	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		5	0.097		1	0.019		-	-		-	-		-	
AFNG				-	-		5	0.097		-	-		-	-		-	-		-	
AFR				-	-		3	0.058		-	-		-	-		-	-		-	
TRK CGO 4X4 (2320-01-674-9408)	A		-	-	-	0.093	6	0.557	0.107	2	0.214	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.093		2	0.214		-	-		-	-		-	
AFNG				-	-		5	0.464		-	-		-	-		-	-		-	
TRK UTILITY 4X4 4DOOR (2320-01-338-6502)	A		-	-	-	0.045	3	0.135	0.035	41	1.435	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		3	0.135		41	1.435		-	-		-	-		-	
TRK CGO CMPT 4X4 3500G (2320-01-087-8223)	A		-	-	-	0.030	7	0.210	0.030	3	0.090	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		7	0.210		2	0.060		-	-		-	-		-	
AFNG				-	-		-	-		1	0.030		-	-		-	-		-	

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 2	<b>P-1 Line Item Number / Title:</b> 822990 / Cargo and Utility Vehicles	<b>Aggregated Items Title:</b> Cargo and Utility Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
PMA Other Government Costs	A		-	-	-	-	-	0.015	-	-	0.010	-	-	0.004	-	-	-	-	-	0.004
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.015	-	-	0.010	-	-	0.004	-	-	-	-	-	0.004
TRK TRAC 55 GVW 6X4 RH (2320-01-058-5724)	A		-	-	-	0.127	14	1.779	0.149	8	1.196	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	9	1.143	-	6	0.897	-	-	-	-	-	-	-	-	-
AFNG			-	-	-	-	3	0.382	-	2	0.299	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	2	0.254	-	-	0.000	-	-	-	-	-	-	-	-	-
TRAILER, DROPDECK, 25T (2330-01-657-3335)	A		-	-	-	0.037	2	0.073	0.037	2	0.074	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	2	0.073	-	1	0.037	-	-	-	-	-	-	-	-	-
AFNG			-	-	-	-	-	-	-	1	0.037	-	-	-	-	-	-	-	-	-
1T S&P 4X2 (2320-00-851-8481)	A		-	-	-	0.028	25	0.701	0.028	26	0.729	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	19	0.532	-	23	0.644	-	-	-	-	-	-	-	-	-
AFNG			-	-	-	-	6	0.169	-	1	0.028	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	-	-	-	2	0.057	-	-	-	-	-	-	-	-	-
TRK 4X4 DOD MWD UP-FIT (2320-01-670-6147)	A		-	-	-	0.052	8	0.414	0.052	14	0.725	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	8	0.414	-	14	0.725	-	-	-	-	-	-	-	-	-
TRAILER TILT DECK 6TON (2330-01-657-2183)	A		-	-	-	0.011	11	0.121	0.011	4	0.044	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	5	0.055	-	4	0.044	-	-	-	-	-	-	-	-	-
AFNG			-	-	-	-	6	0.066	-	-	-	-	-	-	-	-	-	-	-	-
TRAILER VAN CARGO 12TON (2330-01-657-3336)	A		-	-	-	0.042	5	0.211	0.042	3	0.127	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	5	0.211	-	3	0.127	-	-	-	-	-	-	-	-	-
TRAILER 20T 40FT W/COVER KIT (2330-01-094-0007)	A		-	-	-	0.053	3	0.160	0.053	4	0.214	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		3	0.160		4	0.214		-	-		-	-		-	
TRAILER LOWBED 35TON (2330-01-051-6648)	A		-	-	-	0.057	2	0.113	0.057	4	0.226	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.113		2	0.113		-	-		-	-		-	
AFNG				-	-		-	-		2	0.113		-	-		-	-		-	
TRAILER LOW-BED 20TON 25FT (2330-01-657-1333)	A		-	-	-	0.035	19	0.674	0.035	10	0.354	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		19	0.674		9	0.319		-	-		-	-		-	
AFNG				-	-		-	-		1	0.035		-	-		-	-		-	
TRK CGO 4DR 4X4 TLR TWG (2320-01-424-2760)	A		-	-	-	0.038	10	0.384	0.038	38	1.445	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		9	0.346		36	1.368		-	-		-	-		-	
AFNG				-	-		1	0.038		2	0.077		-	-		-	-		-	
TRAILER, 38 FT. SEMI (2330-01-381-9477)	A		-	-	-	0.034	56	1.904	0.035	121	4.233	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		54	1.836		114	3.990		-	-		-	-		-	
AFNG				-	-		2	0.068		4	0.139		-	-		-	-		-	
AFR				-	-		-	-		3	0.104		-	-		-	-		-	
TRK VAN 16000-24000 GVW (2320-01-039-7929)	A		-	-	-	0.074	2	0.148	0.074	3	0.222	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.148		3	0.222		-	-		-	-		-	
TRAILER, FLAT BED, 45 FT. AIR RIDE (2330-01-061-8609)	A		-	-	-	0.028	18	0.497	0.037	2	0.074	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		18	0.497		1	0.037		-	-		-	-		-	
AFNG				-	-		-	-		1	0.037		-	-		-	-		-	
TRAILER, 50 TON LOWBED (2330-01-058-5911)	A		-	-	-	0.069	7	0.481	0.069	8	0.549	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		7	0.481		8	0.549		-	-		-	-		-	-
TRAILER, LOWBED, TILT DECK, 22 TON (2330-01-657-3337)	A		-	-	-	0.038	11	0.416	0.042	4	0.168	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		10	0.378		2	0.084		-	-		-	-		-	-
AFNG				-	-		1	0.038		2	0.084		-	-		-	-		-	-
TRUCK, PICKUP, CREW CAB, 1/2T, 4X4 (2320-01-484-6748)	A		-	-	-	0.026	28	0.720	0.026	86	2.213	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		21	0.540		49	1.261		-	-		-	-		-	-
AFNG				-	-		4	0.103		37	0.952		-	-		-	-		-	-
AFR				-	-		3	0.077		-	-		-	-		-	-		-	-
TRUCK, PICKUP CREW CAB 4X4, 3/4T CU (2320-00-580-2955)	A		-	-	-	0.042	119	4.946	0.042	129	5.403	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		95	3.948		96	4.032		-	-		-	-		-	-
AFNG				-	-		19	0.790		24	0.997		-	-		-	-		-	-
AFR				-	-		5	0.208		9	0.374		-	-		-	-		-	-
TRUCK, PICKUP CREW CAB 4X2, 3/4T CU (2320-00-580-2954)	A		-	-	-	0.031	55	1.704	0.031	129	3.998	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		51	1.580		100	3.100		-	-		-	-		-	-
AFNG				-	-		4	0.124		22	0.681		-	-		-	-		-	-
AFR				-	-		-	-		7	0.217		-	-		-	-		-	-
TRUCK, STAKE AND PLATFORM 4X2 10000GVW (2320-01-250-7367)	A		-	-	-	0.033	33	1.098	0.033	54	1.785	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		20	0.666		45	1.485		-	-		-	-		-	-
AFNG				-	-		8	0.266		7	0.233		-	-		-	-		-	-
AFR				-	-		5	0.166		2	0.067		-	-		-	-		-	-
TRUCK, CARRYALL 4X2 8 PAX (2320-00-879-7662)	A		-	-	-	0.029	53	1.520	0.030	45	1.367	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 2	<b>P-1 Line Item Number / Title:</b> 822990 / Cargo and Utility Vehicles	<b>Aggregated Items Title:</b> Cargo and Utility Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		47	1.348		38	1.154		-	-		-	-		-	
AFNG				-	-		6	0.172		5	0.152		-	-		-	-		-	
AFR				-	-		-	-		2	0.061		-	-		-	-		-	
TRUCK, CARRYALL 4X2 15 PAX (2320-01-036-6569)	A		-	-	-	0.030	38	1.134	0.031	52	1.599	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		38	1.134		46	1.415		-	-		-	-		-	
AFNG				-	-		-	-		3	0.092		-	-		-	-		-	
AFR				-	-		-	-		3	0.092		-	-		-	-		-	
TRUCK, CARRYALL 4X2 7 PAX (2320-01-173-6113)	A		-	-	-	0.023	14	0.319	0.023	25	0.569	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		14	0.319		19	0.432		-	-		-	-		-	
AFNG				-	-		-	-		6	0.137		-	-		-	-		-	
TRUCK, PICKUP 4X4 1/2 T 4600 & 5799 GVW (2320-00-811-6869)	A		-	-	-	0.028	32	0.897	0.029	39	1.130	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		24	0.673		33	0.956		-	-		-	-		-	
AFNG				-	-		5	0.140		4	0.116		-	-		-	-		-	
AFR				-	-		3	0.084		2	0.058		-	-		-	-		-	
SUV, 4X4 COMPACT 4500 GVW (2320-01-563-7478)	A		-	-	-	0.025	11	0.280	0.025	16	0.399	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		11	0.280		16	0.399		-	-		-	-		-	
VAN, MAINTENANCE UTILITY DELIVERY (2320-01-176-2223)	A		-	-	-	0.031	65	2.040	0.031	97	3.047	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		63	1.977		39	1.227		-	-		-	-		-	
AFNG				-	-		-	-		34	1.067		-	-		-	-		-	
AFR				-	-		2	0.063		24	0.753		-	-		-	-		-	
TRUCK, TRACTOR 44.5G (2320-00-271-1432)	A		-	-	-	0.135	43	5.803	0.136	37	5.032	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 2	<b>P-1 Line Item Number / Title:</b> 822990 / Cargo and Utility Vehicles	<b>Aggregated Items Title:</b> Cargo and Utility Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		35	4.725		30	4.080		-	-		-	-		-	-
AFNG				-	-		5	0.674		5	0.680		-	-		-	-		-	-
AFR				-	-		3	0.404		2	0.272		-	-		-	-		-	-
TRUCK, VAN PANEL 4X2 (2320-01-013-2754)	A		-	-	-	0.024	43	1.032	0.027	45	1.215	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		43	1.032		43	1.161		-	-		-	-		-	-
AFNG				-	-		-	-		1	0.027		-	-		-	-		-	-
AFR				-	-		-	-		1	0.027		-	-		-	-		-	-
TRUCK, TRACTOR 39.5G (2320-01-341-7627)	A		-	-	-	0.107	3	0.322	0.136	9	1.224	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		3	0.322		6	0.816		-	-		-	-		-	-
AFNG				-	-		-	-		3	0.408		-	-		-	-		-	-
TRK 1/2 TON (2320-00-540-1428)	A		-	-	-	0.022	39	0.858	0.022	114	2.498	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		39	0.858		84	1.848		-	-		-	-		-	-
AFNG				-	-		-	-		18	0.390		-	-		-	-		-	-
AFR				-	-		-	-		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	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.107		2	0.118		-	-		-	-		-	-
AFNG				-	-		-	-		3	0.177		-	-		-	-		-	-
TRUCK, COMPACT CREW CAB 4X4 (2320-01-500-5203)	A		-	-	-	0.016	65	1.040	0.030	46	1.364	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		65	1.040		42	1.245		-	-		-	-		-	-
AFNG				-	-		-	-		4	0.119		-	-		-	-		-	-
TRUCK, PICKUP CREW CAB 4X2 (2320-01-504-1443)	A		-	-	-	0.028	25	0.697	0.028	74	2.043	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		17	0.476		67	1.850		-	-		-	-		-	-
AFNG				-	-		3	0.083		7	0.193		-	-		-	-		-	-
AFR				-	-		5	0.138		-	-		-	-		-	-		-	-



**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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, 1/4 TON 4X2 EXT CAB (2320-01-496-0404)	A		-	-	-	0.024	65	1.550	0.024	94	2.260	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		31	0.739		64	1.536		-	-		-	-		-	
AFNG				-	-		18	0.429		15	0.362		-	-		-	-		-	
AFR				-	-		16	0.382		15	0.362		-	-		-	-		-	
TRK TRAC MSL SPT (2320-00-344-4397)	A		-	-	-	0.160	5	0.800	0.160	3	0.480	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		4	0.640		2	0.320		-	-		-	-		-	
AFNG				-	-		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	24	1.099	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		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		-	-		-	-		-	-		-	
TRK TRACTOR (2320-01-482-9775)	A		-	-	-	0.183	5	0.915	0.125	1	0.125	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		5	0.915		-	-		-	-		-	-		-	
AFNG				-	-		-	-		1	0.125		-	-		-	-		-	
TRAILER, DETACHABLE GOOSENECK 60TON (2330-00-349-2572)	EA		-	-	-	0.082	37	3.051	0.083	15	1.245	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		15	1.235		15	1.245		-	-		-	-		-	
AFNG				-	-		18	1.486		-	-		-	-		-	-		-	
AFR				-	-		4	0.330		-	-		-	-		-	-		-	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>46.304</b>	-	-	<b>57.459</b>	-	-	<b>35.220</b>	-	-	-	-	<b>35.220</b>	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 2	<b>P-1 Line Item Number / Title:</b> 822990 / Cargo and Utility Vehicles	<b>Aggregated Items Title:</b> Cargo and Utility Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Total</b>			-	-	-	-	-	46.304	-	-	57.459	-	-	35.220	-	-	-	-	-	35.220

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

**Remarks:**  
 The AF has decided to change the way vehicle procurements is reported due to the large amount of NSNs and sub-NSNs within the vehicle program. Prior to FY23, the AF reported vehicle procurement by National Stock Numbers. Each stock number provided projected procurement quantities provided by the 441st Vehicle Support Chain Operations Squadron (VSCOS). Starting in FY23 and the out years, the AF has created Vehicle-Type Categories in order to better explain/understand vehicle procurement reporting. The Vehicle-Type Categories contain vehicles that are similar in type and cost. Because vehicle requirements consistently change during the year of execution, using this type of reporting ensures quantity adjustments are reported accurately and better explained/understood. Detailed vehicle data on actual vehicle purchases can be obtained through the CARS 2.0 data system maintained and controlled by the 441st VSCOS and is available upon request.

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

UNIT COSTS FOR FY23 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 2023 Air Force **Date:** April 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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	56.694	90.584	60.461	-	60.461	70.647	74.020	61.103	62.451	-	475.960
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	56.694	90.584	60.461	-	60.461	70.647	74.020	61.103	62.451	-	475.960
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>56.694</b>	<b>90.584</b>	<b>60.461</b>	-	<b>60.461</b>	<b>70.647</b>	<b>74.020</b>	<b>61.103</b>	<b>62.451</b>	-	<b>475.960</b>

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

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

**Description:**

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

FY22 funding totals include 7.869M requested for 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.

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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles		<b>P-1 Line Item Number / Title:</b> 823210 / Joint Light Tactical Vehicle
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	139	149	109	0	109	-	-	-	-
	Total Obligation Authority	55.054	87.344	58.641	0.000	58.641	-	-	-	-
AFNG	Quantity	2	3	2	0	2	-	-	-	-
	Total Obligation Authority	1.139	1.643	1.463	0.000	1.463	-	-	-	-
AFR	Quantity	1	2	1	0	1	-	-	-	-
	Total Obligation Authority	0.501	1.597	0.357	0.000	0.357	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>142</b>	<b>154</b>	<b>112</b>	<b>0</b>	<b>112</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>56.694</b>	<b>90.584</b>	<b>60.461</b>	<b>0.000</b>	<b>60.461</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 56.694	- / 90.584	- / 60.461	- / -	- / 60.461
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 56.694	- / 90.584	- / 60.461	- / -	- / 60.461

\*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:**

FY23 procurement dollars in the amount of 60.641M will procure, but not be limited to, 112 vehicles in support of installation and unit mission requirements for Air Force personnel.

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. Unit cost is provided by the Joint Program Office at TACOM (Army).

Funding for this exhibit contained in PEs: 0207588F, 0208047F, 0804731F, 0502831F, 0507831F, 0702831F

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Common Remotely Operating Weapon System (CROWS)	A		-	-	-	-	-	4.207	-	-	10.780	-	-	9.310	-	-	-	-	-	9.310
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	4.207	-	-	10.780	-	-	9.310	-	-	-	-	-	9.310
PMA: CONTRACTOR SERVICES	A		-	-	-	-	-	0.786	-	-	0.775	-	-	0.756	-	-	-	-	-	0.756
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.786	-	-	0.775	-	-	0.756	-	-	-	-	-	0.756
M1114 TURRENT RING	A		-	-	-	-	-	0.965	-	-	2.246	-	-	1.329	-	-	-	-	-	1.329
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.965	-	-	2.221	-	-	1.329	-	-	-	-	-	1.329
AFR			-	-	-	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-
TOMA SUPPORT (Tech Orders)	A		-	-	-	-	-	-	-	-	0.019	-	-	0.025	-	-	-	-	-	0.025
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.019	-	-	0.025	-	-	-	-	-	0.025
Overhead Gunners Protection Kit (OGPK)	A		-	-	-	-	-	2.432	-	-	3.792	-	-	1.665	-	-	-	-	-	1.665
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	2.432	-	-	3.492	-	-	1.665	-	-	-	-	-	1.665
AFR			-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	-	-	-	-
FIELD SERVICE REPRESENTATIVE SUPPORT (FSR)	A		-	-	-	-	-	3.750	-	-	6.027	-	-	1.078	-	-	-	-	-	1.078
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	3.750	-	-	5.601	-	-	1.078	-	-	-	-	-	1.078
AFNG			-	-	-	-	-	-	-	-	0.213	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	-	-	-	-	0.213	-	-	-	-	-	-	-	-	-
CONTRACTOR FURNISHED EQUIPMENT (CFE)	A		-	-	-	-	-	9.679	-	-	13.249	-	-	7.933	-	-	-	-	-	7.933
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	9.150	-	-	12.549	-	-	7.390	-	-	-	-	-	7.390
AFNG			-	-	-	-	-	0.302	-	-	0.350	-	-	0.475	-	-	-	-	-	0.475
AFR			-	-	-	-	-	0.227	-	-	0.350	-	-	0.068	-	-	-	-	-	0.068
WORK DIRECTIVES	A		-	-	-	-	-	0.325	-	-	0.500	-	-	1.400	-	-	-	-	-	1.400
<i>Secondary Distribution</i>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 3	<b>P-1 Line Item Number / Title:</b> 823210 / Joint Light Tactical Vehicle	<b>Aggregated Items Title:</b> Joint Light Tactical Vehicle
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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	-	-	1.400	-	-	-	-	-	-	1.400	
JLTV TRAILER	A		-	-	-	0.052	48	2.496	0.053	15	0.795	0.057	14	0.792	-	-	-	0.057	14	0.792
<i>Secondary Distribution</i>																				
AF			-	-	-	-	48	2.496	-	15	0.795	-	14	0.792	-	-	-	-	14	0.792
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.015	-	-	0.042	-	-	0.021	-	-	-	-	-	0.021
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.015	-	-	0.042	-	-	0.021	-	-	-	-	-	0.021
JLTV, HEAVY GUNS CARRIER (HGC)	A		-	-	-	0.274	88	24.112	0.244	99	24.158	0.290	75	21.780	-	-	-	0.290	75	21.780
<i>Secondary Distribution</i>																				
AF			-	-	-	-	87	23.838	-	98	23.858	-	73	21.199	-	-	-	-	73	21.199
AFNG			-	-	-	-	-	-	-	-	-	-	2	0.581	-	-	-	-	2	0.581
AFR			-	-	-	-	1	0.274	-	1	0.300	-	-	-	-	-	-	-	-	-
GOVERNMENT FURNISHED EQUIPMENT (GFE) KITS	A		-	-	-	-	-	6.354	-	-	12.385	-	-	7.797	-	-	-	-	-	7.797
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	6.050	-	-	12.056	-	-	7.390	-	-	-	-	-	7.390
AFNG			-	-	-	-	-	0.304	-	-	0.219	-	-	0.407	-	-	-	-	-	0.407
AFR			-	-	-	-	-	-	-	-	0.110	-	-	-	-	-	-	-	-	-
JLTV, UTILITY (UT)	A		-	-	-	0.260	5	1.300	0.281	26	7.306	0.276	6	1.657	-	-	-	0.276	6	1.657
<i>Secondary Distribution</i>																				
AF			-	-	-	-	4	1.040	-	24	6.744	-	6	1.657	-	-	-	-	6	1.657
AFNG			-	-	-	-	1	0.260	-	2	0.562	-	-	-	-	-	-	-	-	-
JLTV, GENERAL PURPOSE (GP) W	A		-	-	-	0.273	1	0.273	0.608	14	8.510	0.289	17	4.918	-	-	-	0.289	17	4.918
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	12	7.912	-	16	4.629	-	-	-	-	16	4.629
AFNG			-	-	-	-	1	0.273	-	1	0.299	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	-	-	-	1	0.299	-	1	0.289	-	-	-	-	1	0.289
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>56.694</b>	-	-	<b>90.584</b>	-	-	<b>60.461</b>	-	-	-	-	-	<b>60.461</b>
<b>Total</b>			-	-	-	-	-	<b>56.694</b>	-	-	<b>90.584</b>	-	-	<b>60.461</b>	-	-	-	-	-	<b>60.461</b>

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

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

UNIT COSTS FOR FY23 ARE SUBJECT TO CHANGE AND PROVIDED BY JPO.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 3	<b>P-1 Line Item Number / Title:</b> 823210 / Joint Light Tactical Vehicle	<b>Aggregated Items Title:</b> Joint Light Tactical Vehicle

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.



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.319	6.088	0.382	-	0.382	0.389	0.436	0.450	0.460	-	8.524
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.319	6.088	0.382	-	0.382	0.389	0.436	0.450	0.460	-	8.524
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.319</b>	<b>6.088</b>	<b>0.382</b>	-	<b>0.382</b>	<b>0.389</b>	<b>0.436</b>	<b>0.450</b>	<b>0.460</b>	-	<b>8.524</b>

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

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

**Description:**

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	0	6	0	0	0	-	-	-	-
	Total Obligation Authority	0.205	0.365	0.268	0.000	0.268	-	-	-	-
AFNG	Quantity	9	9	4	0	4	-	-	-	-
	Total Obligation Authority	0.114	0.123	0.114	0.000	0.114	-	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>9</b>	<b>15</b>	<b>4</b>	<b>0</b>	<b>4</b>	-	-	-	-
	<b>Total Obligation Authority</b>	<b>0.319</b>	<b>0.488</b>	<b>0.382</b>	<b>0.000</b>	<b>0.382</b>	-	-	-	-

**Justification:**

FY23 procurement dollars in the amount of 0.382M will procure, but not be limited to, 4 vehicles in support of installation and unit mission requirements for Air Force personnel.

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 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	93.564	77.694	49.623	-	49.623	64.471	97.508	73.760	68.360	-	524.980
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	93.564	77.694	49.623	-	49.623	64.471	97.508	73.760	68.360	-	524.980
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>93.564</b>	<b>77.694</b>	<b>49.623</b>	-	<b>49.623</b>	<b>64.471</b>	<b>97.508</b>	<b>73.760</b>	<b>68.360</b>	-	<b>524.980</b>

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

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

**Description:**

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

FY22 funding totals include 12.389M requested for 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 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	458	404	218	0	218	-	-	-	-
	Total Obligation Authority	86.484	70.808	43.740	0.000	43.740	-	-	-	-
AFNG	Quantity	46	43	29	0	29	-	-	-	-
	Total Obligation Authority	5.213	4.990	4.120	0.000	4.120	-	-	-	-
AFR	Quantity	15	16	10	0	10	-	-	-	-
	Total Obligation Authority	1.867	1.896	1.763	0.000	1.763	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>519</b>	<b>463</b>	<b>257</b>	<b>0</b>	<b>257</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>93.564</b>	<b>77.694</b>	<b>49.623</b>	<b>0.000</b>	<b>49.623</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 93.564	- / 77.694	- / 49.623	- / -	- / 49.623
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 93.564</b>	<b>- / 77.694</b>	<b>- / 49.623</b>	<b>- / -</b>	<b>- / 49.623</b>

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

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

**Justification:**

FY23 procurement dollars in the amount of 49.623M will procure, but not be limited to, 257 vehicles in support of installation and unit mission requirements for Air Force personnel.

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.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
DEICERS EXTENDED REACH	A		-	-	-	-	-	-	-	-	0.731	4	2.924	-	-	-	0.731	4	2.924	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		4	2.924		-	-		4	2.924	
DEICERS TRUCK MOUNTED	A		-	-	-	-	-	-	-	-	0.490	8	3.921	-	-	-	0.490	8	3.921	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		6	2.941		-	-		6	2.941	
AFNG				-	-	-	-	-	-	-		2	0.980		-	-		2	0.980	
TRUCK FUEL AVGAS	A		-	-	-	-	-	-	-	-	0.179	3	0.538	-	-	-	0.179	3	0.538	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		3	0.538		-	-		3	0.538	
TRUCK REFUELERS	A		-	-	-	-	-	-	-	-	0.263	16	4.211	-	-	-	0.263	16	4.211	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		11	2.895		-	-		11	2.895	
AFNG				-	-	-	-	-	-	-		1	0.263		-	-		1	0.263	
AFR				-	-	-	-	-	-	-		4	1.053		-	-		4	1.053	
TRUCK REFUELER LARGE CAPACITY	A		-	-	-	-	-	-	-	-	0.772	2	1.544	-	-	-	0.772	2	1.544	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		2	1.544		-	-		2	1.544	
TOW TRACTORS LARGE	A		-	-	-	-	-	-	-	-	0.130	19	2.471	-	-	-	0.130	19	2.471	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		13	1.691		-	-		13	1.691	
AFNG				-	-	-	-	-	-	-		2	0.260		-	-		2	0.260	
AFR				-	-	-	-	-	-	-		4	0.520		-	-		4	0.520	
TOW TRACTORS SMALL	A		-	-	-	-	-	-	-	-	0.074	64	4.708	-	-	-	0.074	64	4.708	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		59	4.340		-	-		59	4.340	
AFNG				-	-	-	-	-	-	-		5	0.368		-	-		5	0.368	
TOW TRACTORS U-30	A		-	-	-	-	-	-	-	-	0.389	5	1.945	-	-	-	0.389	5	1.945	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-		5	1.945		-	-		5	1.945	
TRUCK DIGGER DERRICKS	A		-	-	-	-	-	-	-	-	0.312	8	2.494	-	-	-	0.312	8	2.494	

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		-	-		-	-		7	2.182		-	-		7	2.182
AFNG				-	-		-	-		-	-		1	0.312		-	-		1	0.312
TRUCK HIGH REACH	A			-	-		-	-		-	-	0.230	9	2.067		-	-	0.230	9	2.067
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		9	2.067		-	-		9	2.067
TRUCK HI-REACH MAINTENANCE PLATFORM	A			-	-		-	-		-	-	0.663	6	3.976		-	-	0.663	6	3.976
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		6	3.976		-	-		6	3.976
TRUCK LAVATORY SERVICE	A			-	-		-	-		-	-	0.358	11	3.940		-	-	0.358	11	3.940
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		9	3.224		-	-		9	3.224
AFNG				-	-		-	-		-	-		2	0.716		-	-		2	0.716
TRUCK SPECIALIZED LARGE	A			-	-		-	-		-	-	0.318	10	3.181		-	-	0.318	10	3.181
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		10	3.181		-	-		10	3.181
TRUCK SPECIALIZED SMALL	A			-	-		-	-		-	-	0.071	7	0.494		-	-	0.071	7	0.494
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		6	0.423		-	-		6	0.423
AFNG				-	-		-	-		-	-		1	0.071		-	-		1	0.071
TRUCK MAINTENANCE LARGE	A			-	-		-	-		-	-	0.154	12	1.844		-	-	0.154	12	1.844
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		11	1.690		-	-		11	1.690
AFNG				-	-		-	-		-	-		1	0.154		-	-		1	0.154
TRUCK MAINTENANCE SMALL	A			-	-		-	-		-	-	0.046	40	1.858		-	-	0.046	40	1.858
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		28	1.301		-	-		28	1.301
AFNG				-	-		-	-		-	-		11	0.511		-	-		11	0.511
AFR				-	-		-	-		-	-		1	0.046		-	-		1	0.046
TRUCK STAIRCASE	A			-	-		-	-		-	-	0.208	4	0.833		-	-	0.208	4	0.833

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total				
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)		
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		4	0.833		-	-		4	0.833		
TRUCK TANK FUELS 1200GAL	A			-	-		-	-		-	-		0.144	7	1.007		-	-		0.144	7	1.007
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		6	0.863		-	-		6	0.863		
AFR				-	-		-	-		-	-		1	0.144		-	-		1	0.144		
TRUCK TANK FUELS 250GAL	A			-	-		-	-		-	-		0.099	4	0.395		-	-		0.099	4	0.395
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		4	0.395		-	-		4	0.395		
TRUCK WRECKERS	A			-	-		-	-		-	-		0.169	10	1.686		-	-		0.169	10	1.686
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		8	1.349		-	-		8	1.349		
AFNG				-	-		-	-		-	-		2	0.337		-	-		2	0.337		
TRAILER CABLE REEL LARGE	A			-	-		-	-		-	-		0.148	2	0.296		-	-		0.148	2	0.296
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		1	0.148		-	-		1	0.148		
AFNG				-	-		-	-		-	-		1	0.148		-	-		1	0.148		
TRAILER CABLE REEL SMALL	A			-	-		-	-		-	-		0.015	4	0.058		-	-		0.015	4	0.058
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		4	0.058		-	-		4	0.058		
TRAILER COMPRESSED GAS	A			-	-		-	-		-	-		0.229	1	0.229		-	-		0.229	1	0.229
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		1	0.229		-	-		1	0.229		
TRAILER FUEL SERVICING	A			-	-		-	-		-	-		0.036	1	0.036		-	-		0.036	1	0.036
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		1	0.036		-	-		1	0.036		
VC-25B (PE: 0401319F)	A			-	-		-	-		-	-		-	2.946		-	-		-	-	2.946	
<i>Secondary Distribution</i>																						
AF				-	-		-	-		-	-		-	2.946		-	-		-	-	2.946	
TRK FUEL AVGAS 3K 2320015971728	A			-	-		-	-		0.164	3	0.491		-	-		-	-		-	-	-
<i>Secondary Distribution</i>																						
AF				-	-		-	-			3	0.491		-	-		-	-		-	-	-



**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TLR CBL REEL W/POLE 2330016573338	A		-	-	-	-	-	-	0.015	4	0.060	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.045		-	-		-	-		-	
AFR				-	-		-	-		1	0.015		-	-		-	-		-	
TRK WKR 44M&49999G (2320-1-130-6353)	A		-	-	-	-	-	-	0.274	3	0.821	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.821		-	-		-	-		-	
HDPLP TRUCK (2320-01-528-8238)	A		-	-	-	-	-	-	0.350	3	1.050	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	1.050		-	-		-	-		-	
EOD VEHICLE (2320-01-500-9249)	A		-	-	-	-	-	-	0.400	1	0.400	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.400		-	-		-	-		-	
TRK HI REA 100FT / OVER (2320-00-486-9951)	A		-	-	-	-	-	-	0.459	1	0.459	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		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		-	0.000		-	-		-	-		-	
TLR CBL REEL 10T & OVER (2330-00-420-7079)	A		-	-	-	-	-	-	0.142	2	0.285	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.000		-	-		-	-		-	
AFNG				-	-		-	-		2	0.285		-	-		-	-		-	
TRK TELE MAINT CNTRN 4X4 (2320-01-372-7398)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.000		-	-		-	-		-	

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 REF CMPTR R-HP (2320-00-833-7514)	A		-	-	-	0.126	2	0.251	0.125	1	0.125	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.251		1	0.125		-	-	-		-	-	-	
TRK TEL DIGGER DERRICK (2320-00-455-8464)	A		-	-	-	0.283	1	0.283	0.308	3	0.924	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.283		2	0.616		-	-	-		-	-	-	
AFNG			-	-	-		-	-		1	0.308		-	-	-		-	-	-	
TRAC ACFT TWG MB-2 CL II (1740-01-552-9854YW)	A		-	-	-	0.155	39	6.045	0.158	5	0.790	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		39	6.045		5	0.790		-	-	-		-	-	-	
HI-REACH TRK 55 FT 4X4 (2320-01-544-3637YW)	A		-	-	-	0.253	1	0.253	0.253	1	0.253	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.253		1	0.253		-	-	-		-	-	-	
TRK TK A/ S32A-24 250 GAL (2320-00-089-8979)	A		-	-	-	0.073	2	0.145	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.145		-	-		-	-	-		-	-	-	
TRK HI REA 30&59FT (2320-00-995-5610YW)	A		-	-	-	0.209	5	1.046	0.217	3	0.651	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		5	1.046		3	0.651		-	-	-		-	-	-	
HI REACH MAINT PLATFORM (2320-01-249-0097YW)	A		-	-	-	0.684	1	0.684	0.684	3	2.052	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.684		2	1.368		-	-	-		-	-	-	
AFNG			-	-	-		-	-		1	0.684		-	-	-		-	-	-	
TRK WKR HYD TYP1 3200GVW (2320-01-303-3010)	A		-	-	-	0.145	1	0.145	0.153	4	0.611	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.145		3	0.458		-	-	-		-	-	-	
AFNG			-	-	-		-	-		1	0.153		-	-	-		-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 MAINT TP UTIL 10000G (2320-01-343-7375)	A		-	-	-	0.037	2	0.073	0.037	8	0.297	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.073		7	0.260		-	-		-	-		-	
AFNG				-	-		-	-		1	0.037		-	-		-	-		-	
TRK, WRECKER TILT-BED (2320-01-380-4755)	A		-	-	-	0.108	2	0.216	0.108	2	0.216	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.216		2	0.216		-	-		-	-		-	
TRK MOBILE X-RAY (2320-01-563-7052)	A		-	-	-	1.200	3	3.600	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		3	3.600		-	0.000		-	-		-	-		-	
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	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.067		3	0.108		-	-		-	-		-	
AFNG				-	-		-	-		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		-	0.000		-	-		-	-		-	
TRK TANK FUEL R-11 HMS (2320-01-626-1177YW)	A		-	-	-	0.237	25	5.927	0.265	19	5.044	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		25	5.927		15	3.982		-	-		-	-		-	
AFNG				-	-		-	-		4	1.062		-	-		-	-		-	
TRAC ACFT TWG MB-4 (1740-00-580-7990YW)	A		-	-	-	0.110	34	3.740	0.121	30	3.631	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		34	3.740		26	3.146		-	-		-	-		-	
AFNG				-	-		-	-		3	0.364		-	-		-	-		-	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AFR				-	-		-	-		1	0.121		-	-		-	-		-	-
TOW TRACTOR, MB-2 (1740-00-143-8464YW)	A		-	-	-	0.139	19	2.641	0.148	13	1.925	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		18	2.502		9	1.333		-	-		-	-		-	-
AFNG				-	-		1	0.139		2	0.296		-	-		-	-		-	-
AFR				-	-		-	-		2	0.296		-	-		-	-		-	-
FLIGHT LINE TOW TRACTOR, 4X2 (1740-01-068-8945YW)	A		-	-	-	0.069	98	6.749	0.069	121	8.351	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		67	4.625		109	7.521		-	-		-	-		-	-
AFNG				-	-		24	1.644		7	0.484		-	-		-	-		-	-
AFR				-	-		7	0.480		5	0.346		-	-		-	-		-	-
TRUCK, MAINTENANCE 3/4T 4X4 (2320-00-541-1714)	A		-	-	-	0.038	14	0.526	0.038	17	0.642	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		9	0.338		8	0.304		-	-		-	-		-	-
AFNG				-	-		3	0.113		7	0.263		-	-		-	-		-	-
AFR				-	-		2	0.075		2	0.075		-	-		-	-		-	-
TRUCK, TELEPHONE MAINT STD UTIL 4x2 (2320-00-801-9193)	A		-	-	-	0.030	16	0.484	0.033	28	0.922	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		14	0.424		21	0.693		-	-		-	-		-	-
AFNG				-	-		1	0.030		6	0.196		-	-		-	-		-	-
AFR				-	-		1	0.030		1	0.033		-	-		-	-		-	-
SEMI-TRL 8000 GAL FUEL TANK (2330-00-844-1684)	A		-	-	-	0.060	1	0.060	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.060		-	0.000		-	-		-	-		-	-
TRK TANK 1200G 4X2 (2320-00-177-6777)	A		-	-	-	0.138	12	1.658	0.138	12	1.656	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		12	1.658		10	1.380		-	-		-	-		-	-
AFR				-	-		-	-		2	0.276		-	-		-	-		-	-

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 TANK 1200G 4X4 (2320-00-177-6778)	A		-	-	-	0.159	20	3.179	0.159	7	1.113	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		16	2.545		7	1.113		-	-		-	-		-	
AFNG				-	-		4	0.634		-	-		-	-		-	-		-	
TRK HI-LIFT 9TON (2320-00-540-3991)	A		-	-	-	0.288	3	0.865	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		3	0.865		-	0.000		-	-		-	-		-	
TRK MAINT TEL 4DR (2320-00-451-2184)	A		-	-	-	0.037	3	0.112	0.037	9	0.335	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		3	0.112		5	0.186		-	-		-	-		-	
AFNG				-	-		-	-		4	0.149		-	-		-	-		-	
LARGE CAPACITY REFUELER VEHICLE (LCRV) (2320-01-592-4114YW)	A		-	-	-	-	-	-	0.715	1	0.715	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.715		-	-		-	-		-	
TRK TNK FUEL 6000GAL R-11 (2320-00-433-5695)	A		-	-	-	0.245	100	24.502	0.256	73	18.688	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		86	21.072		70	17.920		-	-		-	-		-	
AFNG				-	-		10	2.450		2	0.512		-	-		-	-		-	
AFR				-	-		4	0.980		1	0.256		-	-		-	-		-	
TRUCK, EXTENDED REACH DEICER (1730-01-495-5449YW)	A		-	-	-	0.676	5	3.381	0.740	2	1.480	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		5	3.381		2	1.480		-	-		-	-		-	
TRK MNT DIGGER DERRICK (2320-01-397-7528)	A		-	-	-	0.321	6	1.926	0.179	1	0.179	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		6	1.926		1	0.179		-	-		-	-		-	
CONTRACT MAINTENANCE TRUCK (2320-01-590-4213YW)	A		-	-	-	0.144	18	2.595	0.146	5	0.732	-	-	-	-	-	-	-	-	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		18	2.595		5	0.732		-	-		-	-		-	
PMA OTHER GOVERNMENT COSTS	A		-	-	-		-	0.023	-	-	0.020	-	-	0.021	-	-	-	-	-	0.021
<i>Secondary Distribution</i>																				
AF				-	-		-	0.023		-	0.020		-	0.021		-	-		-	0.021
PMA CONTRACTOR SERVICES	A		-	-	0.000		-	-	-	-	-	-	-	-	-	-	-	-	-	
STAIRCASE TRK (1730-01-601-8086YW)	A		-	-	-	0.161	17	2.738	0.161	7	1.127	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		17	2.738		6	0.966		-	-		-	-		-	
AFNG				-	-		-	-		1	0.161		-	-		-	-		-	
LAVATORY SERVICE TRK (1730-00-981-7605YW)	A		-	-	-	0.224	11	2.465	0.253	4	1.012	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		11	2.465		4	1.012		-	-		-	-		-	
AFNG				-	-		-	-		-	0.000		-	-		-	-		-	
TRAC ACFT TOW (1740-01-367-9485YW)	A		-	-	-	0.445	19	8.455	0.438	19	8.322	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		19	8.455		19	8.322		-	-		-	-		-	
TRK REFRGR 4X2 (2320-00-770-4467)	A		-	-	-	0.107	2	0.214	0.129	2	0.258	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.214		2	0.258		-	-		-	-		-	
TRK HYDRANT FUEL (2320-01-125-2481)	A		-	-	-	0.302	10	3.023	0.372	20	7.442	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		9	2.721		20	7.442		-	-		-	-		-	
AFR				-	-		1	0.302		-	-		-	-		-	-		-	
FFTT, 4X4 (1740-01-452-4117YW)	A		-	-	-	0.068	10	0.678	0.075	15	1.125	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		7	0.475		15	1.125		-	-		-	-		-	
AFNG				-	-		3	0.203		-	-		-	-		-	-		-	
DEICER TRK MOUNTED (1730-00-555-6205YW)	A		-	-	-	0.425	10	4.247	0.478	7	3.346	-	-	-	-	-	-	-	-	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 3	<b>P-1 Line Item Number / Title:</b> 823990 / Special Purpose Vehicles	<b>Aggregated Items Title:</b> Special Purpose Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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	4.247		6	2.868		-	-		-	-		-	
AFR				-	-		-	-		1	0.478		-	-		-	-		-	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>93.564</b>	-	-	<b>77.694</b>	-	-	<b>49.623</b>	-	-	<b>-</b>	-	<b>49.623</b>	
<b>Total</b>			-	-	-	-	-	<b>93.564</b>	-	-	<b>77.694</b>	-	-	<b>49.623</b>	-	-	<b>-</b>	-	<b>49.623</b>	

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

**Remarks:**  
 The AF has decided to change the way vehicle procurements is reported due to the large amount of NSNs and sub-NSNs within the vehicle program. Prior to FY23, the AF reported vehicle procurement by National Stock Numbers. Each stock number provided projected procurement quantities provided by the 441st Vehicle Support Chain Operations Squadron (VSCOS). Starting in FY23 and the out years, the AF has created Vehicle-Type Categories in order to better explain/understand vehicle procurement reporting. The Vehicle-Type Categories contain vehicles that are similar in type and cost. Because vehicle requirements consistently change during the year of execution, using this type of reporting ensures quantity adjustments are reported accurately and better explained/understood. Detailed vehicle data on actual vehicle purchases can be obtained through the CARS 2.0 data system maintained and controlled by the 441st VSCOS and is available upon request.

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

UNIT COSTS FOR FY23 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.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment	<b>P-1 Line Item Number / Title:</b> 824010 / Fire Fighting/Crash Rescue Vehicles
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F, 0901279F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	33.524	12.525	11.231	-	11.231	56.826	57.052	58.772	60.066	-	289.996
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	33.524	12.525	11.231	-	11.231	56.826	57.052	58.772	60.066	-	289.996
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>33.524</b>	<b>12.525</b>	<b>11.231</b>	-	<b>11.231</b>	<b>56.826</b>	<b>57.052</b>	<b>58.772</b>	<b>60.066</b>	-	<b>289.996</b>

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

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

**Description:**

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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment		<b>P-1 Line Item Number / Title:</b> 824010 / Fire Fighting/Crash Rescue Vehicles
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F, 0901279F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>-- The P-30 is a Medium Rescue Vehicle. It is designed to bring equipment, lighting, a winch, and a generator to the scene of a rescue event. This vehicle has 450 cubic feet of storage space and affords easy equipment access and improved storage compartments. This truck is assigned to the larger industrial bases.</p> <p>-- The P-31 Hazardous Material Vehicle is a dual purpose vehicle that stows and transports hazardous material response equipment for the purpose of mitigating chemical leaks, spills, and releases. This vehicle also provides an incident command workstation area for the purpose of research, command, control, and communications during containment/cleanup operations.</p> <p>-- The P-33 Quint Truck is a fire fighting truck with a 75 foot aerial ladder. It provides improved agent delivery over older models as well as the capability to provide elevated delivery of agent involving high rise and warehouse facilities.</p> <p>-- The P-34 is a first response Air Rescue and Fire Fighting (ARFF) vehicle which equips forces with initial "knock down" capability. The P-34 is the first fire truck to employ Ultra High Pressure (UHP) technology which allows the vehicle to discharge a mixture of water and foam at 1350 psi. This UHP technology makes the vehicle three times more effective than a conventional ARFF truck. The truck has a 400 gallon water tank and a 50 gallon foam tank along with a bumper turret and 200 feet of hand line all mounted on an F-550 chassis.</p> <p>-- The Rapid Intervention Vehicle (RIV) is a first response aircraft fire truck; it is the newest addition to the Air Force's fleet of crash response vehicles. The RIV is the first vehicle in the AF to use new Ultra High Pressure (UHP) fire fighting technology which makes this truck 3 to 3.5 times more efficient at knock-down than conventional ARFF vehicles. This feature increases the length of time the vehicle can remain on the scene without having to be resupplied. Perched on an F550 chassis, the RIV is equipped with a 4-wheel drive train; it provides seating for four, equips fire fighters with limited storage for rescue equipment; has a bumper turret, a 200 ft hand line and a winch. Because of its size, speed and agility this truck can get to a crash scene quickly and perform fire fighting operations until the larger trucks can arrive at the scene.</p> <p>These vehicles are all built to meet the performance standards of the National Fire Protection Association (NFPA), Occupational Safety and Health Administration (OSHA), Federal Aviation Administration (FAA), and Air Force safety regulations.</p> <p>Some vehicles in this exhibit are procured with European Defense Initiative funding.</p> <p>"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.</p> <p>In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding for this exhibit contained in PE 0702831F, 0901279F.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 33.524	- / 12.525	- / 11.231	- / -	- / 11.231
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 33.524	- / 12.525	- / 11.231	- / -	- / 11.231

\*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:**

FY23 procurement dollars in the amount of 11.231M will procure, but not be limited to, 22 vehicles in support of installation and unit mission requirements for Air Force personnel.

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 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
FFGT CRASH RESCUE ULTRA HIGH PRESSURE	A		-	-	-	-	-	-	-	-	0.711	5	3.557	-	-	-	0.711	5	3.557	
FFGT CRASH RESCUE HIGH REACH EXTENDABLE TURRET	A		-	-	-	-	-	-	-	-	0.846	1	0.846	-	-	-	0.846	1	0.846	
FFGT QUINT	A		-	-	-	-	-	-	-	-	0.799	1	0.799	-	-	-	0.799	1	0.799	
FFGT RAPID INTERVENTION VEHICLE	A		-	-	-	-	-	-	-	-	0.376	1	0.376	-	-	-	0.376	1	0.376	
FFGT HAZARDOUS MATERIAL	A		-	-	-	-	-	-	-	-	0.478	1	0.478	-	-	-	0.478	1	0.478	
FFGT HIGH REACH (AERIALS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FFGT MEDIUM RESCUE	A		-	-	-	-	-	-	-	-	0.315	4	1.260	-	-	-	0.315	4	1.260	
FFGT PUMPERS	A		-	-	-	-	-	-	-	-	0.544	3	1.633	-	-	-	0.544	3	1.633	
FFGT WATER TANKERS	A		-	-	-	-	-	-	-	-	0.394	3	1.182	-	-	-	0.394	3	1.182	
FFGT WILDLAND	A		-	-	-	-	-	-	-	-	0.365	3	1.094	-	-	-	0.365	3	1.094	
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	1	0.593	-	-	-	-	-	-	-	-	
TRUCK, PUMPER 4X2 P-22 4210-00-224-4564	A		-	-	-	0.503	1	0.503	0.517	2	1.034	-	-	-	-	-	-	-	-	
TRUCK, PUMPER 4X4 P-24 4210-00-233-1538	A		-	-	-	0.463	6	2.778	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		-	-	-	0.334	5	1.670	0.383	3	1.148	-	-	-	-	-	-	-	-	
VEHICLE, MEDIUM RESCUE P-30 4210-01-452-5121	A		-	-	-	0.293	3	0.879	0.315	2	0.630	-	-	-	-	-	-	-	-	
TRUCK, QUINT P-33 4210-01-500-1083	A		-	-	-	-	-	-	0.650	2	1.300	-	-	-	-	-	-	-	-	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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, WILDLAND P-29 4210-01-483-1025	A		-	-	-	0.318	4	1.272	0.364	2	0.729	-	-	-	-	-	-	-	-	
TRUCK, QUICK ATTACK P-34 4210-01-553-4534	A		-	-	-	-	-	-	0.352	1	0.352	-	-	-	-	-	-	-	-	
TRUCK, HAZMAT FIRE FIGHTING P31 4210-01-396-5219	A		-	-	-	0.527	1	0.527	0.507	2	1.014	-	-	-	-	-	-	-	-	
TRUCK, ARFF P19UHP 4210-01-608-7285	A		-	-	-	0.661	3	1.983	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		-	-	-	0.707	29	20.503	0.707	1	0.707	-	-	-	-	-	-	-	-	
TRUCK, HAZMAT FIRE FIGHTING 4X4 4210-01-497-6245	A		-	-	-	-	-	-	0.479	1	0.479	-	-	-	-	-	-	-	-	
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.068	-	-	0.015	-	-	0.006	-	-	-	-	0.006	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>33.524</b>	-	-	<b>12.525</b>	-	-	<b>11.231</b>	-	-	-	-	<b>11.231</b>	
<b>Total</b>			-	-	-	-	-	<b>33.524</b>	-	-	<b>12.525</b>	-	-	<b>11.231</b>	-	-	-	-	<b>11.231</b>	

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

**Remarks:**

The AF has decided to change the way vehicle procurements is reported due to the large amount of NSNs and sub-NSNs within the vehicle program. Prior to FY23, the AF reported vehicle procurement by National Stock Numbers. Each stock number provided projected procurement quantities provided by the 441st Vehicle Support Chain Operations Squadron (VSCOS). Starting in FY23 and the out years, the AF has created Vehicle-Type Categories in order to better explain/understand vehicle procurement reporting. The Vehicle-Type Categories contain vehicles that are similar in type and cost. Because vehicle requirements consistently change during the year of execution, using this type of reporting ensures quantity adjustments are reported accurately and better explained/understood. Detailed vehicle data on actual vehicle purchases can be obtained through the CARS 2.0 data system maintained and controlled by the 441st VSCOS and is available upon request.

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

UNIT COSTS FOR FY23 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 2023 Air Force **Date:** April 2021

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

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	25.896	37.203	12.559	-	12.559	39.220	21.075	22.569	21.287	-	179.809
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	25.896	37.203	12.559	-	12.559	39.220	21.075	22.569	21.287	-	179.809
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>25.896</b>	<b>37.203</b>	<b>12.559</b>	-	<b>12.559</b>	<b>39.220</b>	<b>21.075</b>	<b>22.569</b>	<b>21.287</b>	-	<b>179.809</b>

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

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

**Description:**

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

FY22 funding totals include 0.641M requested for Enduring Requirements.

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	113	219	83	0	83	-	-	-
	Total Obligation Authority	24.582	34.336	9.980	0.000	9.980	-	-	-
AFNG	Quantity	0	0	0	0	0	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force							<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: Materials Handling Equipment					<b>P-1 Line Item Number / Title:</b> 825990 / Materials Handling Vehicles				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A									

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AFR	Quantity	25	39	23	0	23	-	-	-	-
	Total Obligation Authority	1.314	2.867	2.579	0.000	2.579	-	-	-	-
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>138</b>	<b>258</b>	<b>106</b>	<b>0</b>	<b>106</b>	-	-	-	-
	<b>Total Obligation Authority</b>	<b>25.896</b>	<b>37.203</b>	<b>12.559</b>	<b>0.000</b>	<b>12.559</b>	-	-	-	-



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 25.896	- / 37.203	- / 12.559	- / -	- / 12.559
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 25.896	- / 37.203	- / 12.559	- / -	- / 12.559

\*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:**  
 FY23 procurement dollars in the amount of 12.559M will procure, but not be limited to, 106 vehicles in support of installation and unit mission requirements for Air Force personnel.

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 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
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	A		-	-	-	0.875	8	7.000	0.936	5	4.680	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	8	7.000	-	5	4.680	-	-	-	-	-	-	-	-	
FORKLIFTS, 2-6K ELECTRIC	A		-	-	-	-	-	-	-	-	-	0.046	9	0.415	-	-	-	0.046	9	0.415
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	9	0.415	-	-	-	-	9	0.415
FORKLIFTS, 4-6K DIESEL	A		-	-	-	-	-	-	-	-	-	0.056	15	0.847	-	-	-	0.056	15	0.847
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	10	0.565	-	-	-	-	10	0.565
AFR			-	-	-	-	-	-	-	-	-	-	5	0.282	-	-	-	-	5	0.282
FORKLIFTS, 4-6K COMMERCIAL	A		-	-	-	-	-	-	-	-	-	0.044	15	0.660	-	-	-	0.044	15	0.660
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	12	0.528	-	-	-	-	12	0.528
AFR			-	-	-	-	-	-	-	-	-	-	3	0.132	-	-	-	-	3	0.132
FORKLIFTS, 10-15K DIESEL	A		-	-	-	-	-	-	-	-	-	0.096	16	1.543	-	-	-	0.096	16	1.543
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	9	0.868	-	-	-	-	9	0.868
AFR			-	-	-	-	-	-	-	-	-	-	7	0.675	-	-	-	-	7	0.675
FORKLIFTS, 10-13K ALL TERRAIN	A		-	-	-	-	-	-	-	-	-	0.228	17	3.876	-	-	-	0.228	17	3.876
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	11	2.508	-	-	-	-	11	2.508
AFR			-	-	-	-	-	-	-	-	-	-	6	1.368	-	-	-	-	6	1.368
FORKLIFTS 10K TELEHANDLERS	A		-	-	-	-	-	-	-	-	-	0.212	5	1.061	-	-	-	0.212	5	1.061
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	5	1.061	-	-	-	-	5	1.061
FORKLIFTS, 20-25K ROUGH TERRAIN	A		-	-	-	-	-	-	-	-	-	0.244	3	0.731	-	-	-	0.244	3	0.731
<i>Secondary Distribution</i>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 5	<b>P-1 Line Item Number / Title:</b> 825990 / Materials Handling Vehicles	<b>Aggregated Items Title:</b> Materials Handling Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		-	-		-	-		3	0.731		-	-		3	0.731
WAREHOUSE TUGS, 2-4K	A		-	-	-	-	-	-	-	-	-	0.061	13	0.795	-	-	-	0.061	13	0.795
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		11	0.673		-	-		11	0.673
AFR				-	-		-	-		-	-		2	0.122		-	-		2	0.122
CONVEYOR BELTS	A		-	-	-	-	-	-	-	-	-	0.077	7	0.541	-	-	-	0.077	7	0.541
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		7	0.541		-	-		7	0.541
CONTAINER HANDLERS	A		-	-	-	-	-	-	-	-	-	0.478	4	1.911	-	-	-	0.478	4	1.911
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		4	1.911		-	-		4	1.911
WAREHOUSE CRANES	A		-	-	-	-	-	-	-	-	-	0.085	2	0.169	-	-	-	0.085	2	0.169
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		2	0.169		-	-		2	0.169
FORKLIFT, 4K ELECTRIC STANDARD 000539175	A		-	-	-	-	-	-	0.051	7	0.355	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		7	0.355		-	-		-	-		-	-
FORKLIFT, 2K ELECTRIC STANDARD 006782580	A		-	-	-	0.031	2	0.062	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.031		-	0.000		-	-		-	-		-	-
AFR				-	-		1	0.031		-	-		-	-		-	-		-	-
FORKLIFT, 4K DED 010130338	A		-	-	-	0.046	12	0.547	0.047	15	0.705	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		7	0.319		10	0.470		-	-		-	-		-	-
AFR				-	-		5	0.228		5	0.235		-	-		-	-		-	-
FORKLIFT, 4K COMMERCIAL 014330885	A		-	-	-	0.044	7	0.308	0.044	12	0.528	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		3	0.132		6	0.264		-	-		-	-		-	-
AFR				-	-		4	0.176		6	0.264		-	-		-	-		-	-

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FORKLIFT, 15K COMMERCIAL 010471597	A		-	-	-	0.086	2	0.172	0.086	8	0.690	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.172		5	0.431		-	-		-	-		-	
AFR				-	-		-	-		3	0.259		-	-		-	-		-	
FORKLIFT, 6K RT 008792157	A		-	-	-	0.125	1	0.125	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.125		-	0.000		-	-		-	-		-	
TRUCK MOUNTED CONVEYOR BELT 000195630	A		-	-	-	-	-	-	0.076	2	0.152	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.152		-	-		-	-		-	
TRUCK, FORKLIFT NARROW AISLE 6K 014214083	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.000		-	-		-	-		-	
FORKLIFT, 6K DED 010525219	A		-	-	-	0.054	16	0.864	0.067	63	4.214	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		12	0.648		60	4.052		-	-		-	-		-	
AFR				-	-		4	0.216		3	0.162		-	-		-	-		-	
4K AT 23.5FT RT BOOM FL 012104756	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FORKLIFT, 6K COMMERCIAL 014330887	A		-	-	-	0.045	8	0.362	0.045	14	0.636	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		4	0.180		9	0.409		-	-		-	-		-	
AFR				-	-		4	0.182		5	0.227		-	-		-	-		-	
FORKLIFT, FAT 10K AT 004889695	A		-	-	-	-	-	-	0.202	17	3.434	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		13	2.626		-	-		-	-		-	
AFR				-	-		-	-		4	0.808		-	-		-	-		-	
FORKLIFT, 10K STANDARD 008566897	A		-	-	-	0.092	37	3.404	0.095	19	1.803	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		34	3.128		14	1.330		-	-		-	-		-	-	
AFR				-	-		3	0.276		5	0.473		-	-		-	-		-	-	
FORKLIFT, 3K ELECTRIC 011022185	A		-	-	-				0.025	3	0.075		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		3	0.075		-	-		-	-		-	-	
FORKLIFT, 6K ELECTRIC 010471157	A		-	-	-				0.046	6	0.276		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		4	0.184		-	-		-	-		-	-	
AFR				-	-		-	-		2	0.092		-	-		-	-		-	-	
10K 55' REACH TELEHANDLER 015769312	A		-	-	-	0.222	15	3.335	0.222	29	6.449		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		15	3.335		29	6.449		-	-		-	-		-	-	
4K WHSE TRAC 010070115	A		-	-	-	0.051	15	0.766	0.058	13	0.752		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		11	0.561		7	0.405		-	-		-	-		-	-	
AFR				-	-		4	0.205		6	0.347		-	-		-	-		-	-	
FORKLIFT, 50K AT CNTR HD 013073658	A		-	-	-	0.746	4	2.983	0.724	2	1.447		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		4	2.983		2	1.447		-	-		-	-		-	-	
F/L 100K REACH STACKER 014958475	A		-	-	-	0.486	5	2.429	0.485	2	0.971		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		5	2.429		2	0.971		-	-		-	-		-	-	
FORKLIFT, 25K 013904562	A		-	-	-	0.696	5	3.480	0.254	11	2.795		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		5	3.480		11	2.795		-	-		-	-		-	-	
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.025	-	-	0.022		-	-	0.010		-	-		-	0.010
<i>Secondary Distribution</i>																					
AF				-	-		-	0.025		-	0.022		-	-	0.010		-	-		-	0.010

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2023 Air Force **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FORKLIFT, TRUCK AT LGE CAP 13K 011260457	A		-	-	-	-	-	-	0.241	30	7.219	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		30	7.219		-	-		-	-		-	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>25.896</b>	-	-	<b>37.203</b>	-	-	<b>12.559</b>	-	-	-	-	<b>12.559</b>	
<b>Total</b>			-	-	-	-	-	<b>25.896</b>	-	-	<b>37.203</b>	-	-	<b>12.559</b>	-	-	-	-	<b>12.559</b>	

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

**Remarks:**

The AF has decided to change the way vehicle procurements is reported due to the large amount of NSNs and sub-NSNs within the vehicle program. Prior to FY23, the AF reported vehicle procurement by National Stock Numbers. Each stock number provided projected procurement quantities provided by the 441st Vehicle Support Chain Operations Squadron (VSCOS). Starting in FY23 and the out years, the AF has created Vehicle-Type Categories in order to better explain/understand vehicle procurement reporting. The Vehicle-Type Categories contain vehicles that are similar in type and cost. Because vehicle requirements consistently change during the year of execution, using this type of reporting ensures quantity adjustments are reported accurately and better explained/understood. Detailed vehicle data on actual vehicle purchases can be obtained through the CARS 2.0 data system maintained and controlled by the 441st VSCOS and is available upon request.

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

UNIT COSTS FOR FY23 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 2023 Air Force **Date:** April 2021

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	13.646	9.134	6.409	-	6.409	13.071	7.445	8.183	8.857	-	66.745
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	13.646	9.134	6.409	-	6.409	13.071	7.445	8.183	8.857	-	66.745
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>13.646</b>	<b>9.134</b>	<b>6.409</b>	-	<b>6.409</b>	<b>13.071</b>	<b>7.445</b>	<b>8.183</b>	<b>8.857</b>	-	<b>66.745</b>

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

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

**Description:**

FY21 funding totals include 5.759M appropriated for Overseas Contingency Operations.

FY22 funding totals include 1.040M requested for Enduring Requirements.

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	47	31	19	0	19	-	-	-	-
	Total Obligation Authority	12.000	8.654	5.932	0.000	5.932	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AFNG	Quantity	3	3	3	0	3	-	-	-	-
	Total Obligation Authority	0.327	0.326	0.329	0.000	0.329	-	-	-	-
AFR	Quantity	5	2	2	0	2	-	-	-	-
	Total Obligation Authority	1.319	0.154	0.148	0.000	0.148	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>55</b>	<b>36</b>	<b>24</b>	<b>0</b>	<b>24</b>	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>13.646</b>	<b>9.134</b>	<b>6.409</b>	<b>0.000</b>	<b>6.409</b>	-	-	-	-



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 13.646	- / 9.134	- / 6.409	- / -	- / 6.409
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 13.646	- / 9.134	- / 6.409	- / -	- / 6.409

\*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:**

FY23 procurement dollars in the amount of 6.409M will procure, but not be limited to, 24 vehicles in support of installation and unit mission requirements for Air Force personnel.

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 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
CLEANER, VAC MULTIPURPOSE (2438)	A		-	-	-	0.173	13	2.249	0.172	14	2.408	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		11	1.903		13	2.236		-	-		-	-		-	
AFNG			-	-	-		1	0.173		1	0.172		-	-		-	-		-	
AFR			-	-	-		1	0.173		-	-		-	-		-	-		-	
RUNWAY SWEEPERS	A		-	-	-	-	-	-	-	-	-	0.181	7	1.268	-	-	-	0.181	7	1.268
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		6	1.087		-	-		6	1.087
AFNG			-	-	-	-	-	-	-	-	-		1	0.181		-	-		1	0.181
ROTARY SWEEPERS	A		-	-	-	-	-	-	-	-	-	0.074	8	0.591	-	-	-	0.074	8	0.591
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		4	0.295		-	-		4	0.295
AFNG			-	-	-	-	-	-	-	-	-		2	0.148		-	-		2	0.148
AFR			-	-	-	-	-	-	-	-	-		2	0.148		-	-		2	0.148
SNOW REMOVAL VEHICLES	A		-	-	-	-	-	-	-	-	-	0.606	3	1.818	-	-	-	0.606	3	1.818
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		3	1.818		-	-		3	1.818
SNOW PLOW VEHICLES	A		-	-	-	-	-	-	-	-	-	0.407	3	1.222	-	-	-	0.407	3	1.222
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		3	1.222		-	-		3	1.222
SNOW BROOM & BLOWER VEHICLES	A		-	-	-	-	-	-	-	-	-	0.496	3	1.488	-	-	-	0.496	3	1.488
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		3	1.488		-	-		3	1.488
RAPID RUNWAY REPAIR DIRT SWEEPER (1997)	A		-	-	-	0.077	21	1.617	0.077	9	0.693	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		17	1.309		5	0.385		-	-		-	-		-	-
AFNG			-	-	-		2	0.154		2	0.154		-	-		-	-		-	-
AFR			-	-	-		2	0.154		2	0.154		-	-		-	-		-	-
54K PLOW (7657)	A		-	-	-	0.380	4	1.520	0.380	1	0.380	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force</b>															<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 6						<b>P-1 Line Item Number / Title:</b> 826210 / Runway Snow Remov And Cleaning Equ						<b>Aggregated Items Title:</b> Runway Snow Remov And Cleaning Equ							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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	1.520		1	0.380		-	-		-	-		-	-
SNOW BROOM AND BLOWER (3770)	A		-	-	-	0.449	4	1.796	0.483	5	2.415	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		4	1.796		5	2.415		-	-		-	-		-	-
SNOW REMOVAL UNIT 3K TON PER HOUR (5554)	A		-	-	-	0.496	13	6.448	0.496	5	2.478	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		11	5.456		5	2.478		-	-		-	-		-	-
AFR				-	-		2	0.992		-	-		-	-		-	-		-	-
45K REVERSIBLE PLOW (1944)	A		-	-	-	-	-	-	0.354	2	0.708	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.708		-	-		-	-		-	-
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.016	-	-	0.052	-	-	0.022	-	-	-	-	-	0.022
<i>Secondary Distribution</i>																				
AF				-	-		-	0.016		-	0.052		-	0.022		-	-		-	0.022
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>13.646</b>	-	-	<b>9.134</b>	-	-	<b>6.409</b>	-	-	-	-	-	<b>6.409</b>
<b>Total</b>			-	-	-	-	-	<b>13.646</b>	-	-	<b>9.134</b>	-	-	<b>6.409</b>	-	-	-	-	-	<b>6.409</b>

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

**Remarks:**

The AF has decided to change the way vehicle procurements is reported due to the large amount of NSNs and sub-NSNs within the vehicle program. Prior to FY23, the AF reported vehicle procurement by National Stock Numbers. Each stock number provided projected procurement quantities provided by the 441st Vehicle Support Chain Operations Squadron (VSCOS). Starting in FY23 and the out years, the AF has created Vehicle-Type Categories in order to better explain/understand vehicle procurement reporting. The Vehicle-Type Categories contain vehicles that are similar in type and cost. Because vehicle requirements consistently change during the year of execution, using this type of reporting ensures quantity adjustments are reported accurately and better explained/understood. Detailed vehicle data on actual vehicle purchases can be obtained through the CARS 2.0 data system maintained and controlled by the 441st VSCOS and is available upon request.

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

UNIT COSTS FOR FY23 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 2023 Air Force **Date:** April 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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	67.744	103.728	72.012	-	72.012	86.826	56.328	29.195	46.822	-	462.655
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	67.744	103.728	72.012	-	72.012	86.826	56.328	29.195	46.822	-	462.655
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>67.744</b>	<b>103.728</b>	<b>72.012</b>	-	<b>72.012</b>	<b>86.826</b>	<b>56.328</b>	<b>29.195</b>	<b>46.822</b>	-	<b>462.655</b>

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

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

**Description:**

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

FY22 funding totals include 1.426M requested for Enduring Requirements.

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	340	555	263	0	263	-	-	-	-
	Total Obligation Authority	66.874	102.403	70.843	0.000	70.843	-	-	-	-
AFNG	Quantity	8	7	4	0	4	-	-	-	-
	Total Obligation Authority	0.673	0.990	0.892	0.000	0.892	-	-	-	-

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force							<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support					<b>P-1 Line Item Number / Title:</b> 826990 / Base Maintenance Support Vehicles					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AFR	Quantity	2	3	3	0	3	-	-	-	-
	Total Obligation Authority	0.197	0.335	0.277	0.000	0.277	-	-	-	-
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>350</b>	<b>565</b>	<b>270</b>	<b>0</b>	<b>270</b>	-	-	-	-
	<b>Total Obligation Authority</b>	<b>67.744</b>	<b>103.728</b>	<b>72.012</b>	<b>0.000</b>	<b>72.012</b>	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 67.744	- / 103.728	- / 72.012	- / -	- / 72.012
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 67.744</b>	<b>- / 103.728</b>	<b>- / 72.012</b>	<b>- / -</b>	<b>- / 72.012</b>

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

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

**Justification:**

FY23 procurement dollars in the amount of 72.012M will procure, but not be limited to, 270 vehicles in support of installation and unit mission requirements for Air Force personnel.

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 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
DUMP TRUCK, 6X4, 64k GVW (2320-01-524-6043)	A		-	-	-	0.154	2	0.308	0.162	2	0.324	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.308		1	0.162		-	-		-	-		-	
AFR			-	-	-		-	-		1	0.162		-	-		-	-		-	
ARMORED LOADERS	A		-	-	-	0.946	4	3.784	-	-	-	0.946	10	9.465	-	-	-	0.947	10	9.465
<i>Secondary Distribution</i>																				
AF			-	-	-		4	3.784		-	-		10	9.465		-	-		10	9.465
ARMORED DOZERS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASPHALT BATCH PLANTS	A		-	-	-	-	-	-	-	-	-	1.500	2	3.000	-	-	-	1.500	2	3.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		2	3.000		-	-		2	3.000
ASPHALT RECYCLERS	A		-	-	-	-	-	-	-	-	-	0.222	8	1.772	-	-	-	0.222	8	1.772
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		8	1.772		-	-		8	1.772
CONCRETE MIXERS	A		-	-	-	-	-	-	-	-	-	0.236	3	0.707	-	-	-	0.236	3	0.707
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		3	0.707		-	-		3	0.707
CRANES, LARGE	A		-	-	-	-	-	-	-	-	-	1.547	1	1.547	-	-	-	1.547	1	1.547
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		1	1.547		-	-		1	1.547
CRANES, SMALL	A		-	-	-	-	-	-	-	-	-	0.369	5	1.846	-	-	-	0.369	5	1.846
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		5	1.846		-	-		5	1.846
CRAWLERS	A		-	-	-	-	-	-	-	-	-	0.097	2	0.193	-	-	-	0.097	2	0.193
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		2	0.193		-	-		2	0.193
CRUSHING / SCREENING PLANTS	A		-	-	-	-	-	-	-	-	-	0.301	1	0.301	-	-	-	0.301	1	0.301
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		1	0.301		-	-		1	0.301
DISTR WATER TRUCKS	A		-	-	-	-	-	-	-	-	-	0.213	16	3.402	-	-	-	0.213	16	3.402
<i>Secondary Distribution</i>																				



**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		-	-		-	-		16	3.402		-	-		16	3.402
DISTR WATER TRAILERS	A		-	-	-	-	-	-	-	-	-	0.108	15	1.618	-	-	-	0.108	15	1.618
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		15	1.618		-	-		15	1.618
DITCHING MACHINES	A		-	-	-	-	-	-	-	-	-	0.164	3	0.491	-	-	-	0.164	3	0.491
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		3	0.491		-	-		3	0.491
DOZERS	A		-	-	-	-	-	-	-	-	-	0.591	9	5.316	-	-	-	0.591	9	5.316
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		9	5.316		-	-		9	5.316
DUMP TRUCKS, SMALL	A		-	-	-	-	-	-	-	-	-	0.133	15	1.994	-	-	-	0.133	15	1.994
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		15	1.994		-	-		15	1.994
DUMP TRUCKS, LARGE	A		-	-	-	-	-	-	-	-	-	0.452	16	7.237	-	-	-	0.452	16	7.237
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		16	7.237		-	-		16	7.237
EXCAVATORS	A		-	-	-	-	-	-	-	-	-	0.220	19	4.184	-	-	-	0.220	19	4.184
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		18	3.964		-	-		18	3.964
AFNG				-	-		-	-		-	-		1	0.220		-	-		1	0.220
GRADERS	A		-	-	-	-	-	-	-	-	-	0.334	13	4.340	-	-	-	0.334	13	4.340
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		13	4.340		-	-		13	4.340
LOADERS LESS THAN 2 CY	A		-	-	-	-	-	-	-	-	-	0.131	26	3.401	-	-	-	0.131	26	3.401
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		25	3.270		-	-		25	3.270
AFR				-	-		-	-		-	-		1	0.131		-	-		1	0.131
GRADERS GREATER THAN 2 CY	A		-	-	-	-	-	-	-	-	-	0.345	23	7.945	-	-	-	0.345	23	7.945
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		23	7.945		-	-		23	7.945
MIXERS BITUMINOUS	A		-	-	-	-	-	-	-	-	-	0.149	8	1.195	-	-	-	0.149	8	1.195
<i>Secondary Distribution</i>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		-	-		-		8	1.195		-	-		8	1.195	
PAVING MACHINES	A		-	-	-	-	-	-	-	-	0.315	2	0.629	-	-	-	0.315	2	0.629	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		2	0.629		-	-		2	0.629	
ROLLERS MOTORIZED	A		-	-	-	-	-	-	-	-	0.054	20	1.071	-	-	-	0.054	20	1.071	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		20	1.071		-	-		20	1.071	
ROLLERS VIBRATING	A		-	-	-	-	-	-	-	-	0.160	20	3.196	-	-	-	0.160	20	3.196	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		20	3.196		-	-		20	3.196	
SCRAPERS	A		-	-	-	-	-	-	-	-	0.770	3	2.309	-	-	-	0.770	3	2.309	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		3	2.309		-	-		3	2.309	
SEWER & MANHOLE VEHICLES	A		-	-	-	-	-	-	-	-	0.265	6	1.587	-	-	-	0.265	6	1.587	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		6	1.587		-	-		6	1.587	
TRACTOR WHEELED INDUSTRIAL	A		-	-	-	-	-	-	-	-	0.073	11	0.803	-	-	-	0.073	11	0.803	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		9	0.657		-	-		9	0.657	
AFR				-	-		-	-		-		2	0.146		-	-		2	0.146	
TRAILERS DITCH TILT	A		-	-	-	-	-	-	-	-	0.034	6	0.203	-	-	-	0.034	6	0.203	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		5	0.169		-	-		5	0.169	
AFNG				-	-		-	-		-		1	0.034		-	-		1	0.034	
TRUCK SEWER CENTRIFUGAL	A		-	-	-	-	-	-	-	-	0.328	5	1.640	-	-	-	0.328	5	1.640	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		4	1.312		-	-		4	1.312	
AFNG				-	-		-	-		-		1	0.328		-	-		1	0.328	
TRUCK WATER - WASTE	A		-	-	-	-	-	-	-	-	0.310	2	0.620	-	-	-	0.310	2	0.620	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-		1	0.310		-	-		1	0.310	
AFNG				-	-		-	-		-		1	0.310		-	-		1	0.310	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
BATCHING PLANT (3895-01-063-2722)	A		-	-	-	-	-	-	1.085	7	7.595	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		7	7.595		-	-		-	-		-	
UPARMORED CRAWLER DOZER T9 (2410-01-672-6198)	A		-	-	-	-	-	-	0.650	4	2.600	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4	2.600		-	-		-	-		-	
UPARMORED CRAWLER DOZER T7 (2410-01-672-6199)	A		-	-	-	-	-	-	0.500	3	1.500	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		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	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.902		-	-		-	-		-	
SCOOP LOADER (3805-00-260-1967)	A		-	-	-	0.153	4	0.613	0.182	8	1.456	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		4	0.613		8	1.456		-	-		-	-		-	
TRK DP 24000-33000G 4X2 (2320-00-833-6117)	A		-	-	-	0.082	6	0.492	0.082	11	0.906	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		5	0.410		11	0.906		-	-		-	-		-	
AFNG				-	-		1	0.082		-	-		-	-		-	-		-	
5 TON DUMP TRUCK (2320-00-706-5348)	A		-	-	-	-	-	-	0.116	3	0.349	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.233		-	-		-	-		-	
AFR				-	-		-	-		1	0.116		-	-		-	-		-	
2.5 CY SCOOP LOADER FT (3805-00-728-9718)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
EXCAVATOR DIESEL ENGINE DRIVEN PT (3805-01-106-7176)	A		-	-	-	0.329	16	5.261	0.315	33	10.399	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		16	5.261		33	10.399		-	-		-	-		-	
WHEELED DITCHING MACHINE (3805-01-032-9974)	A		-	-	-	0.213	5	1.065	0.162	5	0.812	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		5	1.065		5	0.812		-	-		-	-		-	
1.5 CY SCOOP LDR W/Q CPLR (3805-01-074-8111)	A		-	-	-	0.121	4	0.484	0.132	2	0.263	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.242		2	0.263		-	-		-	-		-	
AFNG			-	-	-		2	0.242		-	-		-	-		-	-		-	
LODR SCP PT 4CY (3805-01-075-1816)	A		-	-	-	0.262	46	12.058	0.288	8	2.307	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		46	12.058		8	2.307		-	-		-	-		-	
SCOOP LDR W/BKHOE (3805-00-148-2169)	A		-	-	-	0.119	8	0.951	0.121	27	3.273	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		8	0.951		27	3.273		-	-		-	-		-	
SCOOP LOADER, SKID STEER 1CY (3805-01-257-5636)	A		-	-	-	0.076	1	0.076	0.061	3	0.182	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.076		3	0.182		-	-		-	-		-	
CRAWLER DITCHING MACHINE (3805-00-080-1931)	A		-	-	-	0.286	1	0.286	0.386	2	0.772	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.286		2	0.772		-	-		-	-		-	
ROLLER MOT PT SP 15T (3895-00-078-5898)	A		-	-	-	0.080	8	0.639	0.087	14	1.218	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		8	0.639		14	1.218		-	-		-	-		-	
RLR RD TAND 2RL (3895-00-243-6797)	A		-	-	-	0.048	1	0.048	0.050	4	0.200	-	-	-	-	-	-	-	-	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		1	0.048		4	0.200		-	-		-	-		-	
RLR VIB TYPE II (3895-01-071-5625)	A		-	-	-	0.148	4	0.592	0.158	14	2.210		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		4	0.592		14	2.210		-	-		-	-		-	
1500G WATER DISTR (3825-00-554-1808)	A		-	-	-	0.156	42	6.543	0.165	28	4.620		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		42	6.543		28	4.620		-	-		-	-		-	
TRAC IND IW-70 (2420-00-113-8984)	A		-	-	-	0.054	10	0.540	0.059	8	0.476		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		9	0.486		8	0.476		-	-		-	-		-	
AFR				-	-		1	0.054		-	-		-	-		-	-		-	
DOZER T7 (2410-00-756-1161)	A		-	-	-	0.269	11	2.956	0.274	20	5.472		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		11	2.956		20	5.472		-	-		-	-		-	
GRADER, SIZE V, TYPE III (3805-01-337-4624)	A		-	-	-	0.203	16	3.249	0.200	24	4.808		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		16	3.249		24	4.808		-	-		-	-		-	
DISTRIBUTOR WATER TRAILER (3825-00-570-3417)	A		-	-	-	0.164	1	0.164	0.164	2	0.328		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.164		1	0.164		-	-		-	-		-	
AFNG				-	-		-	-		1	0.164		-	-		-	-		-	
SEWER TRK TANDEM AXLE (2320-01-500-5501)	A		-	-	-	0.423	2	0.846	0.388	3	1.164		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.846		3	1.164		-	-		-	-		-	
TLR DITCHING MACH (2330-01-079-4053)	A		-	-	-	0.021	5	0.105	0.021	3	0.062		-	-		-	-		-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.042		2	0.041		-	-		-	-		-	

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		3	0.063		1	0.021		-	-		-	-		-	
WATER DISTR TRUCK (3825-01-539-3764)	A		-	-	-	0.496	1	0.496	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.496		-	0.000		-	-		-	-		-	
7.5 T CRANE (3810-01-106-3991)	A		-	-	-	0.219	4	0.874	0.328	13	4.260	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		4	0.874		13	4.260		-	-		-	-		-	
TLR MANHOLE CLNR (2330-00-307-3295)	A		-	-	-	0.105	2	0.209	0.104	2	0.209	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.209		2	0.209		-	-		-	-		-	
TRUCK, DUMP (2320-01-344-9282)	A		-	-	-	0.143	35	5.011	0.143	67	9.600	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		32	4.582		67	9.600		-	-		-	-		-	
AFNG				-	-		2	0.286		-	-		-	-		-	-		-	
AFR				-	-		1	0.143		-	-		-	-		-	-		-	
DRIER-MXR, BIT CONCR (3895-01-624-1958)	A		-	-	-	0.148	9	1.332	0.149	36	5.376	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		9	1.332		36	5.376		-	-		-	-		-	
2000 GAL WATER TANK (3825-01-624-1963)	A		-	-	-	0.070	32	2.230	0.071	57	4.026	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		32	2.230		57	4.026		-	-		-	-		-	
MIXER, BITUMINOUS MA (3895-01-627-1341)	A		-	-	-	0.205	15	3.082	0.221	18	3.986	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		15	3.082		18	3.986		-	-		-	-		-	
GRADER SZ 6 (3805-01-373-5314)	A		-	-	-	0.277	1	0.277	0.335	2	0.670	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.277		2	0.670		-	-		-	-		-	

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
MIXER CON TRLR MTD (3895-01-005-5422)	A		-	-	-	0.286	2	0.572	0.286	2	0.572	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.572		1	0.286		-	-		-	-		-	
AFNG				-	-		-	-		1	0.286		-	-		-	-		-	
COMPACT EXCAVATOR CRAWLER (3805-01-565-8767)	A		-	-	-	0.056	2	0.112	0.066	5	0.329	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	0.112		5	0.329		-	-		-	-		-	
SCRAPER MOTORIZED 18CY (3805-00-234-9778)	A		-	-	-	0.759	2	1.518	0.770	1	0.770	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	1.518		1	0.770		-	-		-	-		-	
CRUSH-SCREEN 150TH (3820-00-060-1841)	A		-	-	-	1.580	2	3.159	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		2	3.159		-	0.000		-	-		-	-		-	
T7 DOZER (2410-00-816-5091)	A		-	-	-	-	-	-	0.569	2	1.137	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	1.137		-	-		-	-		-	
AFNG				-	-		-	-		-	0.000		-	-		-	-		-	
LOADER SKID STEER TRACK MTD (3805-00-278-1245)	A		-	-	-	0.075	4	0.300	0.057	9	0.510	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		4	0.300		5	0.283		-	-		-	-		-	
AFNG				-	-		-	-		3	0.170		-	-		-	-		-	
AFR				-	-		-	-		1	0.057		-	-		-	-		-	
SEWER TRK SINGLE AXLE (2320-01-501-8524)	A		-	-	-	0.403	1	0.403	0.374	1	0.374	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.403		1	0.374		-	-		-	-		-	
CRANE HYDRAULIC 15T (3810-01-485-8693)	A		-	-	-	0.230	1	0.230	0.230	3	0.689	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force																Date: April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		1	0.230		3	0.689		-	-		-	-		-	
CRANE TRK MTD 28 TON (3810-001-506-6637)	A		-	-	-	0.443	1	0.443	0.404	3	1.212	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.443		3	1.212		-	-		-	-		-	
PAVEMENT PROFILER (3895-01-108-3606)	A		-	-	-	0.624	1	0.624	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.624		-	0.000		-	-		-	-		-	
TRUCK, WASTE WATER TANKER (2320-01-627-2536)	A		-	-	-	0.336	1	0.336	0.336	2	0.671	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.336		2	0.671		-	-		-	-		-	
ROLLER MOTORIZED (3895-01-603-8654)	A		-	-	-	-	-	-	0.035	2	0.070	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.070		-	-		-	-		-	
DUMP TRUCK 6X4 55K GVW (2320-01-058-5725)	A		-	-	-	0.132	1	0.132	0.265	9	2.389	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.132		9	2.389		-	-		-	-		-	
EXCAVATOR CRAWLER MTD (3805-01-058-3562)	A		-	-	-	0.250	1	0.250	0.257	1	0.257	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.250		1	0.257		-	-		-	-		-	
COMPACT TRACK LOADER (3805-01-603-8653)	A		-	-	-	0.127	33	4.186	0.081	69	5.599	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		33	4.186		69	5.599		-	-		-	-		-	
COMPACT SHEEPS FOOT (3805-01-359-7626)	A		-	-	-	0.461	1	0.461	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.461		-	0.000		-	-		-	-		-	



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force** **Date:** April 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TRAC WHLD IND 4WD 85HP (2420-01-205-8579)	A		-	-	-	-	-	-	0.060	6	0.358	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		6	0.358		-	-		-	-		-	
50T CRANE (3810-01-079-8358)	A		-	-	-	0.434	1	0.434	0.462	1	0.462	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.434		1	0.462		-	-		-	-		-	
DUMP TRUCK 22 CY ARTICULATE (3805-00-931-0616)	A		-	-	-	-	-	-	0.452	1	0.452	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.452		-	-		-	-		-	
TRAVEL MIXER ROTARY TILLER (3895-01-618-1267)	A		-	-	-	-	-	-	0.411	3	1.233	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	1.233		-	-		-	-		-	
CRANE SP TM 20-29T (3810-00-554-4103)	A		-	-	-	-	-	-	0.487	1	0.487	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.487		-	-		-	-		-	
CRANE 100TON A/T (3810-01-549-5094)	A		-	-	-	-	-	-	1.208	1	1.208	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	1.208		-	-		-	-		-	
PAVING MACHINE (3895-01-057-5288)	A		-	-	-	-	-	-	0.349	2	0.698	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.349		-	-		-	-		-	
AFNG				-	-		-	-		1	0.349		-	-		-	-		-	
TRUCK MOUNTED CONCRETE MIXER (3895-00-834-6124)	A		-	-	-	-	-	-	0.211	2	0.422	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.422		-	-		-	-		-	
CRANE 18 TON WHEEL IND (3810-01-539-6808)	A		-	-	-	-	-	-	0.283	3	0.849	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 6	<b>P-1 Line Item Number / Title:</b> 826990 / Base Maintenance Support Vehicles	<b>Aggregated Items Title:</b> Base Maintenance Support Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				-	-		-	-		3	0.849		-	-		-	-		-	-
CRANE, 50 TON (3810-00-272-9031)	A		-	-	-	-	-	0.655	1	0.655	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.655		-	-		-	-		-	-
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.013	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.013		-	-		-	-		-	-		-	-
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>67.744</b>	-	-	<b>103.728</b>	-	-	<b>72.012</b>	-	-	-	-	-	<b>72.012</b>
<b>Total</b>			-	-	-	-	-	<b>67.744</b>	-	-	<b>103.728</b>	-	-	<b>72.012</b>	-	-	-	-	-	<b>72.012</b>

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

**Remarks:**

The AF has decided to change the way vehicle procurements is reported due to the large amount of NSNs and sub-NSNs within the vehicle program. Prior to FY23, the AF reported vehicle procurement by National Stock Numbers. Each stock number provided projected procurement quantities provided by the 441st Vehicle Support Chain Operations Squadron (VSCOS). Starting in FY23 and the out years, the AF has created Vehicle-Type Categories in order to better explain/understand vehicle procurement reporting. The Vehicle-Type Categories contain vehicles that are similar in type and cost. Because vehicle requirements consistently change during the year of execution, using this type of reporting ensures quantity adjustments are reported accurately and better explained/understood. Detailed vehicle data on actual vehicle purchases can be obtained through the CARS 2.0 data system maintained and controlled by the 441st VSCOS and is available upon request.

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

UNIT COSTS FOR FY23 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 2023 Air Force **Date:** April 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): 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	55.726	66.022	96.851	-	96.851	79.146	63.031	65.061	66.453	-	492.290
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	55.726	66.022	96.851	-	96.851	79.146	63.031	65.061	66.453	-	492.290
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>55.726</b>	<b>66.022</b>	<b>96.851</b>	-	<b>96.851</b>	<b>79.146</b>	<b>63.031</b>	<b>65.061</b>	<b>66.453</b>	-	<b>492.290</b>

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

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

**Description:**

These programs support Cyberspace Activities.

**PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI)**

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 Department of the Air Force (DAF) clients and applications supporting both Air Force and Space Force. AFDS ensures that DAF 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 DAF networks, by providing DAF user credentials to the DAF Network Enterprise and DAF system applications.

**PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM (ISSP)**

This program centrally 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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)		<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 0303135F; PE 0303140F.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

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

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

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Public Key Infrastructure (PKI)		A		- / -	- / 4.230	- / 4.260	- / 7.347	- / -	- / 7.347
P-5	Information Systems Security Program	P-5a, P-21	A		- / -	- / 51.496	- / 61.761	- / 89.504	- / -	- / 89.504
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 55.726	- / 66.022	- / 96.851	- / -	- / 96.851

\*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:**

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. FY23 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 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.

2. AIR FORCE DIRECTORY SERVICES (AFDS): Air Force Directory Service (AFDS) is the Department of the Air Force (DAF) enterprise-level directory service and attribute store which provides the single source of consolidated authoritative identity management data that enables secure smart card logon to Department of the Air Force (DAF) both Air Force and Space Force clients and applications, facilitating global net-centric operations. As part of the DOD/DAF Identity Solutions Branch and integral part of Identity Credential Access Management (ICAM), AFDS capabilities include identity data directory (IDD), automated AFNET account provisioning, exchange contact information synchronization (ECIS) also known as GAL synchronization and Dynamic Distribution List Creation and Management and reduces the redundancy of directory services and disparate databases and security stores currently deployed across the DAF. AFDS ensures that DAF 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 DAF networks (both in-garrison and tactical), by providing DAF user credentials to the DAF Network Enterprise and DAF system applications. AFDS leverages and provides a core meta-directory service that "joins" and synchronizes personal identity data attributes from authoritative DAF and DoD repositories for use by all DAF systems and applications. Funds will support procurement of identity and credential solutions for mobile platforms and DAF systems and applications to meet DoD and DAF ICAM requirements as well as procure hardware, software and contractor supported upgrades. FY23 funds will procure hardware, software, and support upgrades.

PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM

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 (HAIPE) devices. The program includes equipment upgrades and replacements that incorporate state-of-the-art technologies for mission-critical warfighter

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)		<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>secure voice and data communications. The program provides needed upgrades to encryption devices in FY23 to comply with NSA's Advanced Cryptographic Capabilities (ACC) directives. The program continues to support tactical, strategic, and network applications for globally deployed cryptologic assets supporting AF, Space Force, and DoD. Funding is also needed to perform required repairs and meet contractual commitments to sustain the 1000+ National Stock Numbers and systems and keep pace with the warfighter's requirements. 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. FY23 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 HAIPE Interoperability Specification (HAIPE 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 (includes unclassified, secret, and top secret).</p> <p>b. 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. FY23 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 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 300,000+ 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 HQ ACC/CCC AF Crypto requirements office for any platform requirement changes that drive procurement actions.</p> <p>b. VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM): FY23 funds will continue production of devices to fulfill AF, Navy, and DoD orders. Program will execute Engineering Change Proposal to correct Deficiency reports for platforms looking to proceed with integration to ensure adherence to mandates. 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>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)		<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>(1) VACM COMPONENTS (ARC-234): FY23 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: FY23 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): FY23 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 (FY23) funding requested.</p> <p>d. MINI CRYPTO (MC): FY23 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>FY23 Plans:            (1) Provide FRP units to MC Users and create a fielding schedule for remaining units            (2) Provide support to MC Users as they integrate MC into their platforms</p> <p>e. PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY23 program management administration funding supports management with engineering and technical expertise in support of procurement activities.</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 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> Public Key Infrastructure (PKI)
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	4.230	4.260	7.347	-	7.347
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	4.230	4.260	7.347	-	7.347
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>4.230</b>	<b>4.260</b>	<b>7.347</b>	-	<b>7.347</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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	20,000	3.234	0.000	19,988	3.260	0.000	41,005	5.484	-	-	-	0.000	41,005	5.484
2. AIR FORCE DIRECTORY SERVICES	-	-	-	0.145	5	0.726	0.146	5	0.730	0.149	5	0.743	-	-	-	0.149	5	0.743
3. LESS THAN MEDIUM ASSURANCE PKI	-	-	-	0.027	10	0.270	0.027	10	0.270	0.027	41	1.120	-	-	-	0.027	41	1.120
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.230	-	-	4.260	-	-	7.347	-	-	-	-	-	7.347
<i>Subtotal: Hardware - 0303135F COMSEC Cost</i>	-	-	-	-	-	<b>4.230</b>	-	-	<b>4.260</b>	-	-	<b>7.347</b>	-	-	-	-	-	<b>7.347</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>4.230</b>	-	-	<b>4.260</b>	-	-	<b>7.347</b>	-	-	-	-	-	<b>7.347</b>



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1			<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment			<b>Item Number / Title [DODIC]:</b> Information Systems Security Program		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	51.496	61.761	89.504	-	89.504
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	51.496	61.761	89.504	-	89.504
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	<b>51.496</b>	<b>61.761</b>	<b>89.504</b>	-	<b>89.504</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - 1. AIR and GROUND COMSEC (PE 0303140F) Cost</b>																		
Recurring Cost																		
a. IN-LINE NETWORK ENCRYPTORS <sup>(†)</sup>	-	-	-	0.014	974	13.961	0.014	1,371	19.193	0.013	2,265	30.446	-	-	-	0.013	2,265	30.446
b. AIR AND GROUND CONSOLIDATED <sup>(†)</sup>	-	-	-	0.003	2,985	7.490	0.004	4,980	18.055	0.005	5,069	24.580	-	-	-	0.005	5,069	24.580
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	21.451	-	-	37.248	-	-	55.026	-	-	-	-	-	55.026
<i>Subtotal: Hardware - 1. AIR and GROUND COMSEC (PE 0303140F) Cost</i>	-	-	-	-	-	21.451	-	-	37.248	-	-	55.026	-	-	-	-	-	55.026
<b>Hardware - 2. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost</b>																		
Recurring Cost																		
a (1). KIV-78 <sup>(†)</sup>	-	-	-	0.008	25	0.207	-	-	-	0.004	1,186	5.223	-	-	-	0.004	1,186	5.223
b. (1) VINSON/ANDVIT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234) INSTALLATION	-	-	-	0.006	83	0.500	-	-	-	-	-	-	-	-	-	-	-	-
b. (2) VINSON/ANDVIT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES <sup>(†)</sup>	-	-	-	0.010	2,172	22.298	0.010	2,230	22.413	0.011	1,961	21.756	-	-	-	0.011	1,961	21.756
c. MISSILE ELECTRONIC	-	-	-	0.010	277	2.774	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1						<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment						<b>Item Number / Title [DODIC]:</b> Information Systems Security Program					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ENCRYPTION DEVICES (MEED)																		
d. MINI CRYPTO	-	-	-	0.001	155	0.155	0.001	157	0.157	0.001	160	0.160	-	-	-	0.001	160	0.160
e. PROGRAM MANAGEMENT (PMA)	-	-	-	-	-	1.709	-	-	1.943	-	-	2.763	-	-	-	-	-	2.763
b. (3) REMOTE CONTROL UNIT (RCU)	-	-	-	0.008	125	1.000	-	-	-	0.009	345	3.077	-	-	-	0.009	345	3.077
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	28.643	-	-	24.513	-	-	32.979	-	-	-	-	-	32.979
<i>Subtotal: Hardware - 2. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost</i>	-	-	-	-	-	28.643	-	-	24.513	-	-	32.979	-	-	-	-	-	32.979
<i>Hardware - 3. AF KMI (PE 0303140F) Cost</i>																		
<i>Recurring Cost</i>																		
a. KMI HARDWARE	-	-	-	0.033	42	1.402	-	-	-	0.004	393	1.499	-	-	-	0.004	393	1.499
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.402	-	-	-	-	-	1.499	-	-	-	-	-	1.499
<i>Subtotal: Hardware - 3. AF KMI (PE 0303140F) Cost</i>	-	-	-	-	-	1.402	-	-	-	-	-	1.499	-	-	-	-	-	1.499
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	51.496	-	-	61.761	-	-	89.504	-	-	-	-	-	89.504

**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

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force</b>								<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1			<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment					<b>Item Number / Title [DODIC]:</b> Information Systems Security Program			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
a. IN-LINE NETWORK ENCRYPTORS <sup>(†)</sup>		2021	General Dynamics / Various	Various	NSA	Nov 2020	Jan 2021	974	0.014	Y		
a. IN-LINE NETWORK ENCRYPTORS <sup>(†)</sup>		2022	General Dynamics / Various	Various	NSA	Nov 2021	Jan 2022	1,371	0.014	Y		
a. IN-LINE NETWORK ENCRYPTORS <sup>(†)</sup>		2023	General Dynamics / Various	Various	NSA	Nov 2022	Jan 2023	2,265	0.013	Y		
b. AIR AND GROUND CONSOLIDATED		2021	Raytheon / Florida	Various	CPSG	Mar 2021	Apr 2022	2,985	0.003	Y		
b. AIR AND GROUND CONSOLIDATED		2022	Raytheon / Florida	Various	CPSG	Mar 2022	Apr 2023	4,980	0.004	Y		
b. AIR AND GROUND CONSOLIDATED <sup>(†)</sup>		2023	Raytheon / Florida	Various	CPSG	Mar 2023	Apr 2024	5,069	0.005	Y		
a (1). KIV-78		2021	General Dynamics / Arizona	Various	CPSG	Sep 2021	Oct 2022	25	0.008	Y		
a (1). KIV-78 <sup>(†)</sup>		2023	General Dynamics / Arizona	Various	CPSG	Sep 2023	Oct 2024	1,186	0.004	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	0.010	Y		
b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES <sup>(†)</sup>		2023	Raytheon / Florida	Various	NSA	Mar 2023	Apr 2024	1,961	0.011	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> Information Systems Security Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
<b>a. IN-LINE NETWORK ENCRYPTORS</b>																															
1		2021	AF	974	0	974		A	-	-	974																		0		
1		2022	AF	1,371	0	1,371															A	-	-	1,371					0		
1		2023	AF	2,265	0	2,265																							2,265		
<b>b. AIR AND GROUND CONSOLIDATED</b>																															
2		2023	AF	5,069	0	5,069																							5,069		
<b>a (1). KIV-78</b>																															
3		2023	AF	1,186	0	1,186																							1,186		
<b>b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES</b>																															
4		2023	AF	1,961	0	1,961																							1,961		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	A	S	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> Information Systems Security Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
<b>a. IN-LINE NETWORK ENCRYPTORS</b>																															
1		2021	AF	974	974	0																							0		
1		2022	AF	1,371	1,371	0																							0		
1		2023	AF	2,265	0	2,265			A	-	-	2,265																	0		
<b>b. AIR AND GROUND CONSOLIDATED</b>																															
2		2023	AF	5,069	0	5,069																							0		
<b>a (1). KIV-78</b>																															
3		2023	AF	1,186	0	1,186																							1,186		
<b>b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES</b>																															
4		2023	AF	1,961	0	1,961																							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> Information Systems Security Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							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			
a. IN-LINE NETWORK ENCRYPTORS																																	
1		2021	AF	974	974	0																							0				
1		2022	AF	1,371	1,371	0																							0				
1		2023	AF	2,265	2,265	0																							0				
b. AIR AND GROUND CONSOLIDATED																																	
2		2023	AF	5,069	5,069	0																							0				
a (1). KIV-78																																	
3		2023	AF	1,186	0	1,186	1,186																						0				
b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES																																	
4		2023	AF	1,961	1,961	0																							0				

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> Information Systems Security Program
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	General Dynamics - Various	500	500	2,500	0	0	0	0	2,345	2	2	4
2	Raytheon - Florida	650	650	5,500	0	0	0	0	7,965	6	13	19
3	General Dynamics - Arizona	600	600	1,200	0	0	0	0	25	12	13	25
4	Raytheon - Florida	700	700	2,000	0	0	0	0	4,402	6	13	19

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

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 Microelectronic 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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	35.000	885.051	467.901	-	467.901	0.000	0.000	0.000	0.000	-	1,387.952
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	35.000	885.051	467.901	-	467.901	0.000	0.000	0.000	0.000	-	1,387.952
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>35.000</b>	<b>885.051</b>	<b>467.901</b>	-	<b>467.901</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>1,387.952</b>

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

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

**Description:**

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 2023 Air Force **Date:** April 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:** 0305600F

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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	10.783	5.809	7.043	-	7.043	5.378	4.660	4.924	5.032	-	43.629
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	10.783	5.809	7.043	-	7.043	5.378	4.660	4.924	5.032	-	43.629
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>10.783</b>	<b>5.809</b>	<b>7.043</b>	-	<b>7.043</b>	<b>5.378</b>	<b>4.660</b>	<b>4.924</b>	<b>5.032</b>	-	<b>43.629</b>

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

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

**Description:**

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.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** 0305600F

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	International Intel Tech & Architectures	P-5a, P-21	A		- / -	- / 10.783	- / 5.809	- / 7.043	- / -	- / 7.043
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 10.783</b>	<b>- / 5.809</b>	<b>- / 7.043</b>	<b>- / -</b>	<b>- / 7.043</b>

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

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

**Justification:**  
 In response to CCMD requirements, funding for US BICES/US BICES-X capabilities implements OUSD(I&S) global intelligence sharing arrangements. FY2023 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2				<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures			<b>Item Number / Title [DODIC]:</b> International Intel Tech & Architectures		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	10.783	5.809	7.043	-	7.043
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	10.783	5.809	7.043	-	7.043
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>10.783</b>	<b>5.809</b>	<b>7.043</b>	-	<b>7.043</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - International Intel Tech &amp; Architectures Cost</b>																		
Non Recurring Cost																		
Non-DWCF Investment Electronic and Telecommunication equipment <sup>(1)</sup>	-	-	-	10.283	1	10.283	5.309	1	5.309	6.543	1	6.543	-	-	-	6.543	1	6.543
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	10.283	-	-	5.309	-	-	6.543	-	-	-	-	-	6.543
<i>Subtotal: Hardware - International Intel Tech &amp; Architectures Cost</i>	-	-	-	-	-	<b>10.283</b>	-	-	<b>5.309</b>	-	-	<b>6.543</b>	-	-	-	-	-	<b>6.543</b>
<b>Support - International Intel Tech &amp; Architectures Cost</b>																		
Non-DWCF Investment Electronic and Telecommunication equipment	-	-	-	0.500	1	0.500	0.500	1	0.500	0.500	1	0.500	-	-	-	0.500	1	0.500
<i>Subtotal: Support - International Intel Tech &amp; Architectures Cost</i>	-	-	-	-	-	<b>0.500</b>	-	-	<b>0.500</b>	-	-	<b>0.500</b>	-	-	-	-	-	<b>0.500</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>10.783</b>	-	-	<b>5.809</b>	-	-	<b>7.043</b>	-	-	-	-	-	<b>7.043</b>

**Remarks:**

Delivery Order for the Capital Computer Equipment Replacement Plan (CERP).  
 CERP procures hardware and software to establish US Battlefield Information Collection Exploitation Systems (US BICES) to establish capabilities as a core infrastructure and enterprise for the intelligence component of the DoD Mission Partner Environment (MPE) and enhanced capabilities for coalition Special Operations Command intelligence sharing capabilities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures	<b>Item Number / Title [DODIC]:</b> International Intel Tech & Architectures
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures	<b>Item Number / Title [DODIC]:</b> International Intel Tech & Architectures
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Non-DWCF Investment Electronic and Telecommunication equipment <sup>(†)</sup>		2021	GDIT / Falls Church, VA	C / FFP	AA-CDM	Jul 2022	Aug 2022	1	10.283	Y		
Non-DWCF Investment Electronic and Telecommunication equipment <sup>(†)</sup>		2022	GDIT / Falls Church, VA	C / FFP	AA-CDM	Jul 2022	Aug 2023	1	5.309	Y		
Non-DWCF Investment Electronic and Telecommunication equipment <sup>(†)</sup>		2023	GDIT / Falls Church, VA	C / FFP	AA-CDM	Jul 2023	Aug 2024	1	6.543	Y		

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





**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures	<b>Item Number / Title [DODIC]:</b> International Intel Tech & Architectures
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024														Fiscal Year 2025														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 3	BAL D U E A S O F 1 O C T	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					
Non-DWCF Investment Electronic and Telecommunication equipment																																			
	1	2021	AF	1	1	0																								0					
	1	2022	AF	1	1	0																								0					
	1	2023	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures	<b>Item Number / Title [DODIC]:</b> International Intel Tech & Architectures
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	GDIT - Falls Church, VA	1	1	1	1	10	13	23		1	0	0	0

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	6.349	5.719	2.424	-	2.424	4.998	5.128	5.304	5.442	-	35.364
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	6.349	5.719	2.424	-	2.424	4.998	5.128	5.304	5.442	-	35.364
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>6.349</b>	<b>5.719</b>	<b>2.424</b>	-	<b>2.424</b>	<b>4.998</b>	<b>5.128</b>	<b>5.304</b>	<b>5.442</b>	-	<b>35.364</b>

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

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

**Description:**

The Intelligence Training Equipment P-1 line procures equipment for use in initial and advanced training in the General Intelligence and Cryptologic and Signals Intelligence related career fields. The equipment supports training for intelligence officers, geospatial analysts, targeteers, operations analysts, ground and airborne language analysts, airborne intelligence, surveillance, and reconnaissance analysts, network analysts, and all communications (except communications security) and electronic intelligence analysts. The systems support multiple 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 84733F 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 for training.

Funding for this exhibit contained in PE 84733F.

PE 84733F GENERAL INTELLIGENCE SKILL TRAINING

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Intelligence Training Equipment		A		- / -	- / 6.349	- / 5.719	- / 2.424	- / -	- / 2.424
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 6.349</b>	<b>- / 5.719</b>	<b>- / 2.424</b>	<b>- / -</b>	<b>- / 2.424</b>

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

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

**Justification:**  
 PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING

GOODFELLOW INTELLIGENCE TRAINING ARCHITECTURE (GITA) FY23 funding will used be on the GITA infrastructure to modernize/upgrade the training network backbone and delivery systems supporting over 7,900 students annually. Upgrades ensure that GITA meets/exceeds the latest in cyber security requirements at each security level. GITA provides lifecycle support of the hardware and software required to deliver training designed to meet operational customer requirements. GITA encompasses the following: student workstations; network; servers; storage solutions; thin client technology; scenario-based modeling and simulation models; courseware development software; delivery servers; application hardware; and networking equipment. GITA aligns technologies with advanced teaching techniques; increases system capabilities to support ever-evolving operational intelligence tools; and addresses uncertainty in continued sustainment capabilities to reduce failure rates and outages

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832060 / Intelligence Training Equipment	<b>Item Number / Title [DODIC]:</b> Intelligence Training Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	6.349	5.719	2.424	-	2.424
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	6.349	5.719	2.424	-	2.424
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>6.349</b>	<b>5.719</b>	<b>2.424</b>	-	<b>2.424</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Software - Intelligence Training Equipment Cost																		
Recurring Cost																		
Equipment Modernization	-	-	-	6.349	1	6.349	5.719	1	5.719	2.424	1	2.424	-	-	-	2.424	1	2.424
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.349	-	-	5.719	-	-	2.424	-	-	-	-	-	2.424
<i>Subtotal: Software - Intelligence Training Equipment Cost</i>	-	-	-	-	-	<b>6.349</b>	-	-	<b>5.719</b>	-	-	<b>2.424</b>	-	-	-	-	-	<b>2.424</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>6.349</b>	-	-	<b>5.719</b>	-	-	<b>2.424</b>	-	-	-	-	-	<b>2.424</b>

**Remarks:**

Procurement funds are for a IT system architecture and not individual units. The exhibit will not reflect unit price.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 / 832070 INTELLIGENCE COMMUNICATIONS 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	31.771	25.844	25.308	-	25.308	42.825	37.372	33.338	34.071	-	230.529
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	31.771	25.844	25.308	-	25.308	42.825	37.372	33.338	34.071	-	230.529
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>31.771</b>	<b>25.844</b>	<b>25.308</b>	-	<b>25.308</b>	<b>42.825</b>	<b>37.372</b>	<b>33.338</b>	<b>34.071</b>	-	<b>230.529</b>

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

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

**Description:**

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

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

UNIT LEVEL INTELLIGENCE (ULI) SYSTEMS & 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 0305022F ISR Modernization & Automation Dvmt (IMAD) - P-40A

IMAD 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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.

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 FY23 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. The FY 2023 funding requested was reduced by -5.297 million to account for the availability of prior year execution balances.

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.

PE 0305221F Network-Centric Collaborative Targeting - P-40A  
 Network Centric Collaborative Targeting (NCCT) is the Air Force's program of record for platform agnostic, cooperative geo-location. NCCT is responsible for developing the fusion engine supporting the horizontal and/or vertical integration of Joint Intelligence, Surveillance and Reconnaissance (ISR) sensor systems. As a result, NCCT provides a multi-intelligence (multi-INT) sensor network.

Operationally, NCCT provides tactical collaborative multi-INT geo-location capabilities employed against high-value targets (HVT's). NCCT software supports Machine-to-Machine (M2M) cross-cueing and Internet Protocol (IP) connectivity, coordinating collection activities across the NCCT network. NCCT correlation and fusion software ingests collection data to produce a single, composite track (geolocation and identification) in real-time for HVT's. NCCT procurement funding supports hardware, software, software licenses, and maintenance agreements for hardware and software refreshes required to ensure on-going NCCT operations of NCCT software and program-owned hardware, and global web-enabled services, while satisfying DoD standards and Information Assurance (IA) requirements.

Funding for this exhibit contained in PE 0305221F.

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.ai



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 / 832070 INTELLIGENCE COMMUNICATIONS 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Combat Air Intelligence System Activities	P-5a, P-21	A		- / -	1 / 14.535	1 / 3.066	1 / 3.593	- / -	1 / 3.593
P-5	ISR Modernization & Automation Dvmt (IMAD)	P-5a, P-21	A		- / -	- / 1.580	- / 3.468	- / 4.015	- / -	- / 4.015
P-5	Defense Joint Counterintelligence Activities	P-5a, P-21	A		- / -	1 / 2.507	18 / 2.691	18 / 3.168	- / -	18 / 3.168
P-5	Integrated Broadcast Service (IBS)	P-5a, P-21	A		- / -	1 / 5.727	1 / 9.145	1 / 5.724	- / -	1 / 5.724
P-5	Military Intelligence Program (MIP) Activities	P-5a, P-21	A		- / -	1 / 3.949	1 / 4.249	1 / 5.009	- / -	1 / 5.009
P-5	Network-Centric Collaborative Targeting	P-5a, P-21	A		- / -	1 / 2.997	1 / 3.225	1 / 3.799	- / -	1 / 3.799
P-5	Intelligence Mission Data (IMD)		A		- / -	- / 0.476	- / 0.000	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 31.771	- / 25.844	- / 25.308	- / -	- / 25.308

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

ENHANCED GEOSPATIAL PRODUCT LIBRARY (EGPL): FY-23 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-23 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-23 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-23 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  
FY23 funding procures 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>PE 0305146F Defense Joint Counterintelligence Activities - P-40A  FY23 funding procures the periodic refresh of 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  FY23 funding for IBS procurement efforts are focused in the following areas:</p> <ol style="list-style-type: none"> <li>1. CIB UPLINK SITE (CUS): Serves as the control system for the CIB Uplink Site and interface to the IBS Network Services (IBS-NS). Each major release of the software incorporates approved requirements as necessitated by mission changes, system interoperability requirements, and system security. The new release supports migration to CIB Uplink Sites.</li> <li>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.</li> <li>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.</li> <li>4. IBS Verification and Validation (V&amp;V)/Test Environment: Procures simulation and simulation tools to test, certify and verify mission equipment for operational use. Included is software/hardware/firmware components of the IBS test and V&amp;V 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.</li> <li>5. TERMINAL, DATALINK, &amp; ENTERPRISE SERVER MITIGATION: Funds direct mission support activities such as verification &amp; validation documentation; uplink receive and transmit terminal upgrade, enhancements and spares; mitigation; CMF product support; JOINT TACTICAL DATA LINK, i.e., Link 16 support; ENTR; product documentation; studies and analyses; IBS Web Support and contractor system engineering activities.</li> <li>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.</li> <li>7. Downlink Monitoring Element (DME): Monitoring tool that monitors IBS activity.</li> <li>8. IBS Next Generation: Supports the IBS Next Generation and IS-CDD requirements that will include migration of functionality to cloud hosted enterprise services in support of Advanced Battle Management Systems and Joint All Domain Command and Control</li> </ol> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>PE 0305192F Military Intelligence Program (MIP) Activities - P-40A  FY23 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>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

PE 0305221F Network-Centric Collaborative Targeting - P-40A  
FY 2023 funding will complete a fully accredited and cloud-enabled architecture. NCCT cloud architecture investments will also include new operational interfaces, network controllers, fusion engines, and data guards for multi-level security hardware and software items. FY 2023 funding will also support integration of new multi-INT use cases, the continuation of rapid software deliveries and installs, and participation in 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. NCCT efforts include, but are not limited to, fielding activities such as associated system integration, assembly, test and checkout; certification; non-developmental mission system upgrades, software integration and updates, systems engineering, test and evaluation, support equipment, and PMA.

PE 0307577F Intelligence Mission Data (IMD)  
No funding requested for FY23.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Combat Air Intelligence System Activities

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	1	1	1	-	1
Gross/Weapon System Cost (\$ in Millions)	-	14.535	3.066	3.593	-	3.593
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	14.535	3.066	3.593	-	3.593
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>14.535</b>	<b>3.066</b>	<b>3.593</b>	-	<b>3.593</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	14.535	3.066	3.593	-	3.593

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Combat Air Intelligence System Activities Cost																		
Recurring Cost																		
ULI/eGPL Equipment Systems <sup>(†)</sup>	-	-	-	0.981	1	0.981	1.500	1	1.500	2.015	1	2.015	-	-	-	2.015	1	2.015
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>0.981</i>	-	-	<i>1.500</i>	-	-	<i>2.015</i>	-	-	-	-	-	<i>2.015</i>
Non Recurring Cost																		
CAIS PE 0207431F <sup>(†)</sup>	-	-	-	11.985	1	11.985	0.346	1	0.346	0.352	1	0.352	-	-	-	0.352	1	0.352
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	<i>11.985</i>	-	-	<i>0.346</i>	-	-	<i>0.352</i>	-	-	-	-	-	<i>0.352</i>
<i>Subtotal: Hardware - Combat Air Intelligence System Activities Cost</i>	-	-	-	-	-	<b>12.966</b>	-	-	<b>1.846</b>	-	-	<b>2.367</b>	-	-	-	-	-	<b>2.367</b>
Support - Combat Air Intelligence System Activities Cost																		
Program Management Administration	-	-	-	0.647	1	0.647	0.335	1	0.335	0.315	1	0.315	-	-	-	0.315	1	0.315
Advisory & Assistance Services (DMS) <sup>(†)</sup>	-	-	-	0.922	1	0.922	0.885	1	0.885	0.911	1	0.911	-	-	-	0.911	1	0.911
<i>Subtotal: Support - Combat Air Intelligence System Activities Cost</i>	-	-	-	-	-	<i>1.569</i>	-	-	<i>1.220</i>	-	-	<i>1.226</i>	-	-	-	-	-	<i>1.226</i>
<b>Gross/Weapon System Cost</b>	-	-	-	<b>14.535</b>	<b>1</b>	<b>14.535</b>	<b>3.066</b>	<b>1</b>	<b>3.066</b>	<b>3.593</b>	<b>1</b>	<b>3.593</b>	-	-	-	<b>3.593</b>	<b>1</b>	<b>3.593</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Combat Air Intelligence System Activities
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<sup>(†)</sup> indicates the presence of a P-5a		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2			<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT				<b>Item Number / Title [DODIC]:</b> Combat Air Intelligence System Activities				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
ULI/eGPL Equipment Systems <sup>(†)</sup>		2021	Various / Various	C / FFP	AFLCMC Hanscom AFB	Jun 2022	Sep 2022	1	0.981	Y		May 2021
ULI/eGPL Equipment Systems <sup>(†)</sup>		2022	Various / Various	C / FFP	AFLCMC Hanscom AFB	Jul 2022	Sep 2022	1	1.500	Y		Jun 2022
ULI/eGPL Equipment Systems <sup>(†)</sup>		2023	Various / Various	C / FFP	AFLCMC Hanscom AFB	May 2023	Jul 2023	1	2.015	Y		Apr 2023
CAIS PE 0207431F		2021	Various / Various	C / FFP	TBD	Jun 2021	Oct 2021	1	11.985	Y		Apr 2021
CAIS PE 0207431F		2022	Various / Various	C / FFP	TBD	Jun 2022	Oct 2022	1	0.346	Y		May 2022
CAIS PE 0207431F		2023	Various / Various	C / FFP	TBD	Jun 2023	Oct 2023	1	0.352	Y		May 2023
Advisory & Assistance Services (DMS)		2021	Oasis / Hanscom AFB, MA	C / CPFF	Hanscom AFB	Jul 2021	Jul 2021	1	0.922	Y		
Advisory & Assistance Services (DMS)		2022	Oasis / Hanscom AFB, MA	C / CPFF	Hanscom AFB	Jul 2022	Jul 2022	1	0.885	Y		
Advisory & Assistance Services (DMS)		2023	Oasis / Hanscom AFB, MA	C / CPFF	Hanscom AFB	Jul 2023	Jul 2023	1	0.911	Y		

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



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> Combat Air Intelligence System Activities									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023										Fiscal Year 2024										BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024														
							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
ULI/eGPL Equipment Systems																															
	1	2021	AF	1	1	0																					0				
	1	2022	AF	1	1	0																					0				
	1	2023	AF	1	0	1											A	-	-	1											0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
		<b>Item Number / Title [DODIC]:</b> Combat Air Intelligence System Activities

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	100	0	0	0	0	1	8	2	10

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> ISR Modernization & Automation Dvmt (IMAD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	1.580	3.468	4.015	-	4.015
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	1.580	3.468	4.015	-	4.015
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>1.580</b>	<b>3.468</b>	<b>4.015</b>	-	<b>4.015</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Software - ISR Modernization & Automation Dvmt (IMAD) Cost																		
Recurring Cost																		
IT Infrastructure <sup>(†)</sup>	-	-	-	-	-	1.300	3.468	1	3.468	4.015	1	4.015	-	-	-	4.015	1	4.015
Communications Hub for Data/Artificial Intelligence Demo & Test Environment <sup>(†)</sup>	-	-	-	0.280	1	0.280	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.580	-	-	3.468	-	-	4.015	-	-	-	-	-	4.015
<i>Subtotal: Software - ISR Modernization &amp; Automation Dvmt (IMAD) Cost</i>	-	-	-	-	-	1.580	-	-	3.468	-	-	4.015	-	-	-	-	-	4.015
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	1.580	-	-	3.468	-	-	4.015	-	-	-	-	-	4.015

**Remarks:**

IMAD (0305022F) Other Procurement Funds for FY22 have not been executed or obligated as of 03/29/2022

<sup>(†)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2			<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT					<b>Item Number / Title [DODIC]:</b> ISR Modernization & Automation Dvmt (IMAD)				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
IT Infrastructure <sup>(†)</sup>		2022	AFMC / Dayton, OH	FFRDC	AFLCMC Wright Patterson AFB	Jan 2022	Jun 2022	1	3.468	Y		Nov 2021
IT Infrastructure <sup>(†)</sup>		2023	AFMC / Dayton. OH	FFRDC	AFLCMC Wright Patterson AFB	Jan 2023	Jun 2023	1	4.015	Y		Nov 2022
Communications Hub for Data/ Artificial Intelligence Demo & Test Environment <sup>(†)</sup>		2021	Various / Various	Various	AFLCMC Wright Patterson AFB	Jan 2021	Jun 2021	1	0.280	Y		Nov 2020

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force																									<b>Date:</b> April 2021												
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> ISR Modernization & Automation Dvmt (IMAD)																	
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021										Fiscal Year 2022										<b>B A L A N C E</b>										
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021										Calendar Year 2022																				
							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						
<b>IT Infrastructure</b>																																					
	1	2022	AF	1	0	1																A	-	-	-	-	-	1									
	2	2023	AF	1	0	1																															
<b>Communications Hub for Data/Artificial Intelligence Demo &amp; Test Environment</b>																																					
	3	2021	AF	1	0	1													A	-	-	-	-	-	1												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> ISR Modernization & Automation Dvmt (IMAD)									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023										Fiscal Year 2024										BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024													
							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
IT Infrastructure																														
	1	2022	AF	1	1	0																							0	
	2	2023	AF	1	0	1				A	-	-	-	-	-	1														0
Communications Hub for Data/Artificial Intelligence Demo & Test Environment																														
	3	2021	AF	1	1	0																							0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
		<b>Item Number / Title [DODIC]:</b> ISR Modernization & Automation Dvmt (IMAD)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	AFMC - Dayton, OH				0	0	0	0	0	0	0	0	0
2	AFMC - Dayton. OH	1	1	100	0	0	0	0	1	4	5	9	
3	Various - Various	1	1	100	1	4	5	9	0	0	0	0	

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Defense Joint Counterintelligence Activities

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )		-	1	18	18	-	18
Gross/Weapon System Cost ( <i>\$ in Millions</i> )		-	2.507	2.691	3.168	-	3.168
Less PY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )		-	2.507	2.691	3.168	-	3.168
Plus CY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )		-	<b>2.507</b>	<b>2.691</b>	<b>3.168</b>	-	<b>3.168</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )		-	2.507	0.150	0.176	-	0.176

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Counterintelligence Cyber Activities Cost																		
Recurring Cost																		
CCA <sup>(†)</sup>	-	-	-	2.007	1	2.007	2.191	1	2.191	2.668	1	2.668	-	-	-	2.668	1	2.668
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.007	-	-	2.191	-	-	2.668	-	-	-	-	-	2.668
<i>Subtotal: Hardware - Counterintelligence Cyber Activities Cost</i>	-	-	-	-	-	<b>2.007</b>	-	-	<b>2.191</b>	-	-	<b>2.668</b>	-	-	-	-	-	<b>2.668</b>
Hardware - Technical Surveillance Activities Cost																		
Recurring Cost																		
TSA <sup>(†)</sup>	-	-	-	0.500	1	0.500	0.029	17	0.500	0.029	17	0.500	-	-	-	0.029	17	0.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.500	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
<i>Subtotal: Hardware - Technical Surveillance Activities Cost</i>	-	-	-	-	-	<b>0.500</b>	-	-	<b>0.500</b>	-	-	<b>0.500</b>	-	-	-	-	-	<b>0.500</b>
<b>Gross/Weapon System Cost</b>	-	-	-	<b>2.507</b>	<b>1</b>	<b>2.507</b>	<b>0.150</b>	<b>18</b>	<b>2.691</b>	<b>0.176</b>	<b>18</b>	<b>3.168</b>	-	-	-	<b>0.176</b>	<b>18</b>	<b>3.168</b>

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2			<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT				<b>Item Number / Title [DODIC]:</b> Defense Joint Counterintelligence Activities				

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
CCA <sup>(†)</sup>		2021	Various / Various	MIPR	AA-CDM	Jan 2021	Jan 2021	1	2.007	Y		Nov 2020
CCA <sup>(†)</sup>		2022	Various / Various	MIPR	AA-CDM	Jan 2022	Jan 2022	1	2.191	Y		Nov 2021
CCA <sup>(†)</sup>		2023	Various / Various	MIPR	AA-CDM	Jan 2023	Jan 2023	1	2.668	Y		Nov 2022
TSA <sup>(†)</sup>		2021	Various / Various	MIPR	AA-CDM	Jan 2021	Jan 2021	1	0.500	Y		Nov 2020
TSA <sup>(†)</sup>		2022	Various / Various	MIPR	AA-CDM	Jan 2022	Jan 2022	17	0.029	Y		Nov 2021
TSA <sup>(†)</sup>		2023	Various / Various	MIPR	AA-CDM	Jan 2023	Jan 2023	17	0.029	Y		Nov 2022

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



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force																					<b>Date:</b> April 2021									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> Defense Joint Counterintelligence Activities										

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022															
							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						
CCA																																				
	1	2021	AF		1	0													A1																0	
	1	2022	AF		1	0																											A1		0	
	1	2023	AF		1	0																													1	
TSA																																				
	2	2021	AF		1	0													A1																0	
	2	2022	AF		17	0																												A17		0
	2	2023	AF		17	0																														17

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> Defense Joint Counterintelligence Activities									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
CCA																															
	1	2021	AF	1	1	0																							0		
	1	2022	AF	1	1	0																							0		
	1	2023	AF	1	0	1																							0		
TSA																															
	2	2021	AF	1	1	0																							0		
	2	2022	AF	17	17	0																							0		
	2	2023	AF	17	0	17																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
		<b>Item Number / Title [DODIC]:</b> Defense Joint Counterintelligence Activities

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	5	20	0	0	0	0	0	1	4	0	4
2	Various - Various	1	1	20	0	0	0	0	0	1	4	0	4

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Integrated Broadcast Service (IBS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)		-	1	1	1	-	1
Gross/Weapon System Cost (\$ in Millions)		-	5.727	9.145	5.724	-	5.724
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		-	5.727	9.145	5.724	-	5.724
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		-	<b>5.727</b>	<b>9.145</b>	<b>5.724</b>	-	<b>5.724</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)		-	5.727	9.145	5.724	-	5.724

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Integrated Broadcast Service (IBS) JTT Radios Cost																		
Recurring Cost																		
Radio <sup>(†)</sup>	-	-	-	0.223	6	1.338	0.226	10	2.260	0.226	1	0.226	-	-	-	0.226	1	0.226
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.338	-	-	2.260	-	-	0.226	-	-	-	-	-	0.226
<i>Subtotal: Hardware - Integrated Broadcast Service (IBS) JTT Radios Cost</i>	-	-	-	-	-	1.338	-	-	2.260	-	-	0.226	-	-	-	-	-	0.226
Hardware - Integrated Broadcast Service (IBS) Lago Antenna Cost																		
Recurring Cost																		
Hardware and installation <sup>(†)</sup>	-	-	-	0.529	1	0.529	0.950	1	0.950	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.529	-	-	0.950	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Integrated Broadcast Service (IBS) Lago Antenna Cost</i>	-	-	-	-	-	0.529	-	-	0.950	-	-	-	-	-	-	-	-	-
Hardware - Integrated Broadcast Service (IBS) Next Generation Cost																		
Recurring Cost																		
Radios and Materials <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1.371	1	1.371	-	-	-	1.371	1	1.371
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.371	-	-	-	-	-	1.371

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Integrated Broadcast Service (IBS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
---	------------------------

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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: Hardware - Integrated Broadcast Service (IBS) Next Generation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.371	-	-	-	-	-	1.371
<b>Software - Integrated Broadcast Service (IBS) Cross Domain Solution Cost</b>																		
Non Recurring Cost																		
Software/Hardware <sup>(†)</sup>	-	-	-	0.585	1	0.585	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.585	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - Integrated Broadcast Service (IBS) Cross Domain Solution Cost</i>	-	-	-	-	-	0.585	-	-	-	-	-	-	-	-	-	-	-	-
<b>Software - Integrated Broadcast Service (IBS) Next Gen Cost</b>																		
Non Recurring Cost																		
Cloud Licensing and deployment <sup>(†)</sup>	-	-	-	-	-	-	1.444	1	1.444	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	1.444	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - Integrated Broadcast Service (IBS) Next Gen Cost</i>	-	-	-	-	-	-	-	-	1.444	-	-	-	-	-	-	-	-	-
<b>Support - Integrated Broadcast Service (IBS) PMA Cost</b>																		
PMA Support <sup>(†)</sup>	-	-	-	3.275	1	3.275	4.491	1	4.491	4.127	1	4.127	-	-	-	4.127	1	4.127
<i>Subtotal: Support - Integrated Broadcast Service (IBS) PMA Cost</i>	-	-	-	-	-	3.275	-	-	4.491	-	-	4.127	-	-	-	-	-	4.127
<b>Gross/Weapon System Cost</b>	-	-	-	5.727	1	5.727	9.145	1	9.145	5.724	1	5.724	-	-	-	5.724	1	5.724

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2			<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT				<b>Item Number / Title [DODIC]:</b> Integrated Broadcast Service (IBS)				

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
Radio <sup>(†)</sup>		2021	N/A / N/A	Reqn	N/A	Mar 2021	Sep 2021	6	0.223	Y		
Radio <sup>(†)</sup>		2022	N/A / N/A	Reqn	N/A	Sep 2022	Feb 2023	10	0.226	Y		
Radio <sup>(†)</sup>		2023	N/A / N/A	Reqn	N/A	Jun 2023	Nov 2023	1	0.226	Y		
Hardware and installation <sup>(†)</sup>		2021	L3 Harris / TX	SS / Various	AFLCMC/HB - Battle Management	Jul 2022	Aug 2022	1	0.529	Y		
Hardware and installation <sup>(†)</sup>		2022	L3 Harris / TX	SS / Various	AFLCMC/HB - Battle Management	Jul 2022	Aug 2022	1	0.950	Y		
Radios and Materials <sup>(†)</sup>		2023	TBD / TBD	Various	AFLCMC/HB - Battle Management	Jul 2023	Jun 2024	1	1.371	Y		
Software/Hardware <sup>(†)</sup>		2021	AFRL / OH	SS / FFP	AFLCMC Wright Patterson AFB	Aug 2021	Dec 2022	1	0.585	Y		
Cloud Licensing and deployment <sup>(†)</sup>		2022	TBD / TBD	C / TBD	AFLCMC/HB - Battle Management	Mar 2023	Jun 2023	1	1.444	Y		
PMA Support		2021	Credence / GA	C / CPFF	AFLCMC Hanscom AFB	Nov 2020	Nov 2020	1	3.275	Y		
PMA Support		2022	Credence / GA	C / CPFF	AFLCMC Hanscom AFB	Nov 2021	Nov 2021	1	4.491	Y		
PMA Support		2023	Credence / GA	C / CPFF	AFLCMC Hanscom AFB	Nov 2022	Nov 2022	1	4.127	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force						<b>Date:</b> April 2021											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2						<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT						<b>Item Number / Title [DODIC]:</b> Integrated Broadcast Service (IBS)					

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021											Fiscal Year 2022											B A L A N C E								
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021											Calendar Year 2022																		
							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					
<b>Radio</b>																																				
	1	2021	AF	6	0	6																														
	1	2022	AF	10	0	10																												A -		
	1	2023	AF	1	0	1																														
<b>Hardware and installation</b>																																				
	2	2021	AF	1	0	1																												A -	1	
	2	2022	AF	1	0	1																												A -	1	
<b>Radios and Materials</b>																																				
	3	2023	AF	1	0	1																														
<b>Software/Hardware</b>																																				
	4	2021	AF	1	0	1																													A -	
<b>Cloud Licensing and deployment</b>																																				
	5	2022	AF	1	0	1																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> Integrated Broadcast Service (IBS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
Radio																																			
	1	2021	AF	6	6	0																							0						
	1	2022	AF	10	0	10	-	-	-	-	10																		0						
	1	2023	AF	1	0	1																							0						
Hardware and installation																																			
	2	2021	AF	1	1	0																							0						
	2	2022	AF	1	1	0																							0						
Radios and Materials																																			
	3	2023	AF	1	0	1																							0						
Software/Hardware																																			
	4	2021	AF	1	0	1	-	-	1																				0						
Cloud Licensing and deployment																																			
	5	2022	AF	1	0	1																							0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
		<b>Item Number / Title [DODIC]:</b> Integrated Broadcast Service (IBS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	N/A - N/A	1	1	20	0	0	0	0	0	1	9	5	14
2	L3 Harris - TX	1	1	20	1	10	1	11	0	0	0	0	0
3	TBD - TBD	1	2	20	1	10	11	21	0	0	0	0	0
4	AFRL - OH	1	2	30	1	11	16	27	0	0	0	0	0
5	TBD - TBD	1	2	30	0	0	0	0	1	18	3	21	21

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Military Intelligence Program (MIP) Activities

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	-	1	1	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	3.949	4.249	5.009	-	5.009
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	3.949	4.249	5.009	-	5.009
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>3.949</b>	<b>4.249</b>	<b>5.009</b>	-	<b>5.009</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	3.949	4.249	5.009	-	5.009

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Military Intelligence Program (MIP) Activities Cost																		
Recurring Cost																		
MIP Activities <sup>(t)</sup>	-	-	-	3.949	1	3.949	4.249	1	4.249	5.009	1	5.009	-	-	-	5.009	1	5.009
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.949	-	-	4.249	-	-	5.009	-	-	-	-	-	5.009
<i>Subtotal: Hardware - Military Intelligence Program (MIP) Activities Cost</i>	-	-	-	-	-	3.949	-	-	4.249	-	-	5.009	-	-	-	-	-	5.009
<b>Gross/Weapon System Cost</b>	-	-	-	3.949	1	3.949	4.249	1	4.249	5.009	1	5.009	-	-	-	5.009	1	5.009

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2			<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT				<b>Item Number / Title [DODIC]:</b> Military Intelligence Program (MIP) Activities				

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
MIP Activities <sup>(†)</sup>		2021	Various / Various	Various	Hanscom AFB	Jan 2021	Jul 2021	1	3.949	Y		Nov 2020
MIP Activities <sup>(†)</sup>		2022	Various / Various	Various	Hanscom AFB	Jan 2022	Jul 2022	1	4.249	Y		Nov 2021
MIP Activities <sup>(†)</sup>		2023	Various / Various	Various	Hanscom AFB	Jan 2023	Jul 2023	1	5.009	Y		Nov 2022

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force																		<b>Date:</b> April 2021											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> Military Intelligence Program (MIP) Activities									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022															
							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			
MIP Activities																																		
1	2021	AF		1	0	1				A	-	-	-	-	-	-	-	1																0
1	2022	AF		1	0	1															A	-	-	-	-	-	-	-	-	1			0	
1	2023	AF		1	0	1																											1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2										<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT										<b>Item Number / Title [DODIC]:</b> Military Intelligence Program (MIP) Activities									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023														Fiscal Year 2024														BALANCE
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
MIP Activities																																			
	1	2021	AF	1	1	0																								0					
	1	2022	AF	1	1	0																								0					
	1	2023	AF	1	0	1				A	-	-	-	-	-	-	1													0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
		<b>Item Number / Title [DODIC]:</b> Military Intelligence Program (MIP) Activities

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	50	0	0	0	0	1	4	6	10

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Network-Centric Collaborative Targeting

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	1	1	1	-	1
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	2.997	3.225	3.799	-	3.799
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	2.997	3.225	3.799	-	3.799
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>2.997</b>	<b>3.225</b>	<b>3.799</b>	-	<b>3.799</b>

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	2.997	3.225	3.799	-	3.799

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Software - Network-Centric Collaborative Targeting Cost																		
Recurring Cost																		
Network-Centric Collaborative Targeting <sup>(†)</sup>	-	-	-	2.997	1	2.997	3.225	1	3.225	3.799	1	3.799	-	-	-	3.799	1	3.799
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.997	-	-	3.225	-	-	3.799	-	-	-	-	-	3.799
<i>Subtotal: Software - Network-Centric Collaborative Targeting Cost</i>	-	-	-	-	-	2.997	-	-	3.225	-	-	3.799	-	-	-	-	-	3.799
<b>Gross/Weapon System Cost</b>	-	-	-	2.997	1	2.997	3.225	1	3.225	3.799	1	3.799	-	-	-	3.799	1	3.799

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2			<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT				<b>Item Number / Title [DODIC]:</b> Network-Centric Collaborative Targeting					

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Network-Centric Collaborative Targeting <sup>(†)</sup>		2021	L3 Harris / Rockwall, TX	Various	AFLCMC/WI - ISR & SOF	Feb 2021	Mar 2021	1	2.997	Y		Jan 2021
Network-Centric Collaborative Targeting <sup>(†)</sup>		2022	L3 Harris / Rockwall, TX	Various	AFLCMC/WI - ISR & SOF	Feb 2022	Mar 2022	1	3.225	Y		Jan 2022
Network-Centric Collaborative Targeting <sup>(†)</sup>		2023	L3 Harris / Rockwall, TX	Various	AFLCMC/WI - ISR & SOF	Feb 2023	Mar 2023	1	3.799	Y		Jan 2023

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



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
<b>Item Number / Title [DODIC]:</b> Network-Centric Collaborative Targeting	

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
Network-Centric Collaborative Targeting																																	
1	2021	AF		1	0	1																									0		
1	2022	AF		1	0	1																									0		
1	2023	AF		1	0	1																									1		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force														<b>Date:</b> April 2021													
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2							<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT														<b>Item Number / Title [DODIC]:</b> Network-Centric Collaborative Targeting						

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024															
							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						
Network-Centric Collaborative Targeting																																				
1	2021	AF		1	1	0																														0
1	2022	AF		1	1	0																														0
1	2023	AF		1	0	1						A -	1																							0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2		<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT
		<b>Item Number / Title [DODIC]:</b> Network-Centric Collaborative Targeting

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	L3 Harris - Rockwall, TX	1	1	10	0	0	0	0	0	1	5	1	6

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / 832070 INTELLIGENCE COMMUNICATIONS EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Intelligence Mission Data (IMD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.476	0.000	0.000	-	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.476	0.000	0.000	-	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.476</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Intelligence Mission Data (IMD) Cost																		
Recurring Cost																		
IMD	-	-	-	0.476	1	0.476	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.476	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - Intelligence Mission Data (IMD) Cost</i>	-	-	-	-	-	0.476	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.476	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 and 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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	23.256	40.673	65.531	-	65.531	66.248	92.145	70.091	71.457	-	429.401
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	23.256	40.673	65.531	-	65.531	66.248	92.145	70.091	71.457	-	429.401
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>23.256</b>	<b>40.673</b>	<b>65.531</b>	-	<b>65.531</b>	<b>66.248</b>	<b>92.145</b>	<b>70.091</b>	<b>71.457</b>	-	<b>429.401</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	1.451	1.000	1.896	-	1.896	-	-	-	-	-	4.347
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 and FY25 respectively.

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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>required as needed. A total of 19 operational systems are on contract (8 AD, 10 ANG, and 1 designated as a trainer for 53 ATCS). The last production unit will be delivered in Jun 22 and the program begins transition to Depot in FY23. D-ILS is normally deployed with the Deployable Radar Approach Control System, a mobile Air Traffic Control Tower, and Man-Portable TACAN.</p> <p>3. DEPLOYABLE RADAR APPROACH CONTROL SYSTEM (D-RAPCON)/LIGHTWEIGHT DEPLOYABLE GROUND CONTROLLED APPROACH (LD-GCA): 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 canceled. The NDS and ACE capabilities focused on adaptive, highly mobile, and scalable capabilities that the initial D-RAPCON program, 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. To provide a near term capability, an updated version of the Air Traffic Navigation Integration and Coordination System (ATNAVICS) is now being procured. The updated system, a fully funded Middle Tier Acquisition (MTA) program designated the 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 prior year funds, two surplus systems from the Army are being refurbished and upgraded to a new AF version. LD-GCA will support operations at austere locations and main operating bases. The basic LD-GCA has two controller work stations which will support austere locations. FY23 efforts include system modernizations (hardware/software) and associated Non-Recurring Engineering (NRE), procurement of End of Life (EOL) components, Interim Contractor Support (ICS), and Program Support Cost (PSC). A sole source contract was awarded to Raytheon on 11 Mar 21 for two LD-GCA systems. To provide a long term solution, a competitive acquisition strategy for additional systems is now planned.</p> <p>4. EXPEDITIONARY SCALABLE MOBILE AIR TRAFFIC SYSTEM (ATC): The Expeditionary Scalable Mobile ATC system includes a Multi-Capable Radar (MCR) and Control Tower (MCR/CT). MCR and CT provide AFRICOM a near term deployable ATC, Tactical Command and Control, Air Base Air Defense tracking/Integrated Air and Missile Defense (IAMD) tracking and prediction, and counter sUAS detection. The system is transportable on one C-130, cyber hardened, Mode-5 (Identification Friend or Foe) and Mode-S (Surveillance) capable. The shelter supports ATC controller positions and has available rack space for UHF/VHF radios and communication equipment. The CT functions as a stand-alone ATC system with all necessary secure and jam resistant communication radios and support equipment. It contains provisions to remotely command airfield operations, including control of existing airfield lighting systems. Transportation methods range from armored vehicles within theater, airlifted by C-17 or CH-47 helicopter. The MCR and CT systems are being procured through the existing AFRICOM/USAFE Persistent Multi-Role Operations (PMRO) contract. The PMRO contract can only be used for AFRICOM/USAFE theater requirements.</p> <p>5. 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 &amp; 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.</p> <p>6. 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.</p> <p>7. 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.</p> <p>8. 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 for the Active Duty and 10 for the Air National Guard).</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force							<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs					<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	521	842	208	-	208	427	1,014	1,045	1,066
	Total Obligation Authority	19.465	37.823	65.531	-	65.531	66.248	92.145	70.091	71.457
AFNG	Quantity	199	150	-	-	-	-	-	-	-
	Total Obligation Authority	3.791	2.850	0.000	0.000	0.000	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>720</b>	<b>992</b>	<b>208</b>	<b>-</b>	<b>208</b>	<b>427</b>	<b>1,014</b>	<b>1,045</b>	<b>1,066</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>23.256</b>	<b>40.673</b>	<b>65.531</b>	<b>0.000</b>	<b>65.531</b>	<b>66.248</b>	<b>92.145</b>	<b>70.091</b>	<b>71.457</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Digital Air Traffic Control Radio Replacement	P-5a, P-21	A		- / -	717 / 14.466	992 / 19.669	204 / 4.866	- / -	204 / 4.866
P-5	D-ILS		A		- / -	- / 1.502	- / 8.524	- / 1.155	- / -	- / 1.155
P-5	D-RAPCON/LD-GCA	P-5a, P-21	A		- / -	- / 0.062	- / 6.456	1 / 21.479	- / -	1 / 21.479
P-5	Expeditionary Scalable Mobile Air Traffic System	P-5a, P-21	A		- / -	- / -	- / -	2 / 24.272	- / -	2 / 24.272
P-5	FB NAVAIDs FOS TACAN/VORTAC	P-5a, P-21	A		- / -	- / -	- / -	1 / 7.788	- / -	1 / 7.788
P-5	Fixed Base Instrument Landing System	P-5a, P-21	A		- / -	2 / 1.498	- / -	- / -	- / -	- / -
P-5	Fixed Base Precision Approach Radar (PAR)	P-5a, P-21	A		- / -	1 / 5.728	- / -	- / -	- / -	- / -
P-5	Manportable TACAN	P-5a, P-21	A		- / -	- / -	- / 6.024	- / 5.971	- / -	- / 5.971
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 23.256	- / 40.673	- / 65.531	- / -	- / 65.531

\*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, Expeditionary Scalable Small Air Traffic System P-5, is a new start.

1. DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: FY23 funds procure 204 systems (204 AD/0 ANG/0 AFR) and Program Support Cost (PSC) Contractor Services.
2. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): FY23 funds bring the organic depot to Full Operational Capability and fund Program Support Cost (PSC) Contractor Services.
3. DEPLOYABLE RADAR APPROACH CONTROL (D-RAPCON)/LIGHTWEIGHT DEPLOYABLE GROUND CONTROLLED APPROACH (LD-GCA): FY23 funds procure Refurbished Systems Obsolescence Hardware, Non-Recurring Engineering, Level of Repair Analysis (LORA), Engineering Change Orders (ECO), Contractor Program Management, Interim Contractor Support (ICS), Direct Mission Support (DMS), and Program Support Cost (PSC) Contractor Services.
4. EXPEDITIONARY SCALABLE MOBILE AIR TRAFFIC SYSTEM: FY23 funds procure one Multi-Capable Radar (MCR) and one Mobile Air Traffic Control Tower (CT).
5. ATCALs FIXED BASE (FB) NAVIGATIONAL AIDS (NAVAIDS) FAMILY OF SYSTEMS (FOS): FY23 funds procure organic depot equipment and fund Program Support Cost (PSC) Contractor Services.
6. FIXED BASE INSTRUMENT LANDING SYSTEM (FB ILS): No Budget Year FY23 funds are requested.
7. FIXED BASE PRECISION APPROACH RADAR (PAR): No Budget Year FY23 funds are requested.
8. MAN-PORTABLE TACAN: FY23 funds procure five systems (5 AD/0 ANG/0 AFR) and Program Support Cost (PSC) Contractor Services.



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys						<b>Item Number / Title [DODIC]:</b> Digital Air Traffic Control Radio Replacement								
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>											
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>			
Procurement Quantity ( <i>Units in Each</i> )				-		717			992			204			-		204			
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-		14.466			19.669			4.866			-		4.866			
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-		-			-			-			-		-			
Net Procurement (P-1) ( <i>\$ in Millions</i> )				-		14.466			19.669			4.866			-		4.866			
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-		-			-			-			-		-			
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				-		<b>14.466</b>			<b>19.669</b>			<b>4.866</b>			-		<b>4.866</b>			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																				
Initial Spares ( <i>\$ in Millions</i> )				-		0.994			1.000			0.306			-		0.306			
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )				-		0.020			0.020			0.024			-		0.024			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>				
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)		
Hardware - Digital Air Traffic Control Radio Replacement Cost																				
Recurring Cost																				
Single Channel Radio <sup>(†)</sup>	-	-	-	0.019	717	13.616	0.019	992	18.846	0.020	204	4.086	-	-	-	0.020	204	4.086		
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	13.616	-	-	18.846	-	-	4.086	-	-	-	-	-	4.086		
<i>Subtotal: Hardware - Digital Air Traffic Control Radio Replacement Cost</i>	-	-	-	-	-	13.616	-	-	18.846	-	-	4.086	-	-	-	-	-	4.086		
Support - Digital Air Traffic Control Radio Replacement Cost																				
Program Support Cost (PSC) Contractor Services	-	-	-	-	-	0.850	-	-	0.823	-	-	0.780	-	-	-	-	-	0.780		
<i>Subtotal: Support - Digital Air Traffic Control Radio Replacement Cost</i>	-	-	-	-	-	0.850	-	-	0.823	-	-	0.780	-	-	-	-	-	0.780		
<b>Gross/Weapon System Cost</b>	-	-	-	<b>0.020</b>	<b>717</b>	<b>14.466</b>	<b>0.020</b>	<b>992</b>	<b>19.669</b>	<b>0.024</b>	<b>204</b>	<b>4.866</b>	-	-	-	<b>0.024</b>	<b>204</b>	<b>4.866</b>		
<b>Secondary Distribution</b>						<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>			
AF						Quantity			518			842			204		-		204	
						Total Obligation Authority			10.675			16.819			4.866		-		4.866	
AFNG						Quantity			199			150			-		-		-	

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Digital Air Traffic Control Radio Replacement

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
	Total Obligation Authority	3.791	2.850	0.000	0.000	0.000
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000
<b>Total:</b>	<b>Quantity</b>	<b>717</b>	<b>992</b>	<b>204</b>	-	<b>204</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>14.466</b>	<b>19.669</b>	<b>4.866</b>	-	<b>4.866</b>

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys				<b>Item Number / Title [DODIC]:</b> Digital Air Traffic Control Radio Replacement				

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
Single Channel Radio <sup>(†)</sup>		2021	General Dynamics / Scottsdale, AZ	C / FFP	AFLCMC Tinker AFB	Jan 2021	Sep 2022	717	0.019	Y		
Single Channel Radio <sup>(†)</sup>		2022	General Dynamics / Scottsdale, AZ	C / FFP	AFLCMC Tinker AFB	Jan 2022	Sep 2023	992	0.019	Y		
Single Channel Radio <sup>(†)</sup>		2023	General Dynamics / Scottsdale, AZ	C / FFP	AFLCMC Tinker AFB	Jan 2023	Sep 2024	204	0.020	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys										<b>Item Number / Title [DODIC]:</b> Digital Air Traffic Control Radio Replacement				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Single Channel Radio																																			
	1	2021	AF	717	0	717				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	658					
	1	2022	AF	992	0	992															A	-	-	-	-	-	-	-	-	992					
	1	2023	AF	204	0	204																								204					
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	U	E					
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	G	P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys										<b>Item Number / Title [DODIC]:</b> Digital Air Traffic Control Radio Replacement									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Single Channel Radio																															
	1	2021	AF	717	59	658	59	59	60	60	60	60	60	60	60	60													0		
	1	2022	AF	992	0	992	-	-	-	-	-	-	-	-	-	-	82	82	82	82	83	83	83	83	83	83	83	83	0		
	1	2023	AF	204	0	204			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	187		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys										<b>Item Number / Title [DODIC]:</b> Digital Air Traffic Control Radio Replacement									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025														Fiscal Year 2026														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCE PT PRI OR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026														
							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					
Single Channel Radio																																			
1	2021	AF		717	717	0																							0						
1	2022	AF		992	992	0																							0						
1	2023	AF		204	17	187	17	17	17	17	17	17	17	17	17	17													0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3				<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys				<b>Item Number / Title [DODIC]:</b> Digital Air Traffic Control Radio Replacement				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	General Dynamics - Scottsdale, AZ	35	93	110	0	0	0	0	3	4	20	24

**Remarks:**  
 Contract includes options for Army, Navy, Air Force and DoD. MSR based on orders from all users. FY23 is only for AF.

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> D-ILS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	1.502	8.524	1.155	-	1.155
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.502	8.524	1.155	-	1.155
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>1.502</b>	<b>8.524</b>	<b>1.155</b>	-	<b>1.155</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Support - D-ILS Cost</b>																		
Direct Mission Support (GFE/SE)	-	-	-	-	-	0.095	-	-	-	-	-	-	-	-	-	-	-	-
Program Support Cost (PSC) Contractor Services	-	-	-	-	-	0.086	-	-	2.275	-	-	0.275	-	-	-	-	-	0.275
Interim Contractor Support	-	-	-	-	-	1.321	-	-	-	-	-	-	-	-	-	-	-	-
Contractor Program Management	-	-	-	-	-	-	-	-	1.364	-	-	-	-	-	-	-	-	-
Depot Stand-Up / Full Operational Capability (FOC) Validation	-	-	-	-	-	-	-	-	4.486	-	-	0.880	-	-	-	-	-	0.880
GFE	-	-	-	-	-	-	-	-	0.399	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - D-ILS Cost</i>	-	-	-	-	-	<b>1.502</b>	-	-	<b>8.524</b>	-	-	<b>1.155</b>	-	-	-	-	-	<b>1.155</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>1.502</b>	-	-	<b>8.524</b>	-	-	<b>1.155</b>	-	-	-	-	-	<b>1.155</b>

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	1.502	8.524	1.155	-	1.155
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-



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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force				<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys		<b>Item Number / Title [DODIC]:</b> D-ILS		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	1.502	8.524	1.155	-	1.155

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**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys			<b>Item Number / Title [DODIC]:</b> D-RAPCON/LD-GCA		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )			-	-	-	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )			-	0.062	6.456	21.479	-	21.479
Less PY Advance Procurement ( <i>\$ in Millions</i> )			-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )			-	0.062	6.456	21.479	-	21.479
Plus CY Advance Procurement ( <i>\$ in Millions</i> )			-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )			-	<b>0.062</b>	<b>6.456</b>	<b>21.479</b>	-	<b>21.479</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares ( <i>\$ in Millions</i> )			-	-	-	1.590	-	1.590
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )			-	-	-	21.479	-	21.479

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - D-RAPCON Cost																		
Non Recurring Cost																		
Refurbishment Obsolescence Hardware <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	6.909	1	6.909	-	-	-	6.909	1	6.909
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.909	-	-	-	-	-	6.909
<i>Subtotal: Hardware - D-RAPCON Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.909	-	-	-	-	-	6.909
Support - D-RAPCON Cost																		
Non-Recurring Engineering (NRE) / ECO	-	-	-	-	-	-	-	-	-	-	-	2.882	-	-	-	-	-	2.882
Direct Mission Support	-	-	-	-	-	-	-	-	1.974	-	-	2.951	-	-	-	-	-	2.951
Program Support Cost (PSC) Contractor Services	-	-	-	-	-	0.062	-	-	3.489	-	-	3.289	-	-	-	-	-	3.289
Contractor PMO/Training/ Fielding Support	-	-	-	-	-	-	-	-	0.993	-	-	2.055	-	-	-	-	-	2.055
GFE/ LORA / ECO	-	-	-	-	-	-	-	-	-	-	-	1.331	-	-	-	-	-	1.331
Interim Contractor Support	-	-	-	-	-	-	-	-	-	-	-	2.062	-	-	-	-	-	2.062
<i>Subtotal: Support - D-RAPCON Cost</i>	-	-	-	-	-	0.062	-	-	6.456	-	-	14.570	-	-	-	-	-	14.570
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.062	-	-	6.456	21.479	1	21.479	-	-	-	21.479	1	21.479

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> D-RAPCON/LD-GCA
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>	Quantity	-	-	1	-	1
	Total Obligation Authority	0.062	6.456	21.479	-	21.479
<b>Total: Secondary Distribution</b>	Quantity	-	-	1	-	1
	Total Obligation Authority	0.062	6.456	21.479	-	21.479

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys				<b>Item Number / Title [DODIC]:</b> D-RAPCON/LD-GCA					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Refurbishment Obsolescence Hardware <sup>(†)</sup>		2023	Raytheon / Burlington, MA	C / FFP	AFLCMC Hanscom AFB	Feb 2023	Sep 2023	1	6.909	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> D-RAPCON/LD-GCA
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Refurbishment Obsolescence Hardware																															
	1	2023	AF	1	0	1																								0	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> D-RAPCON/LD-GCA
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon - Burlington, MA	1	1	1	3	5	7	12	0	0	0	0

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys						<b>Item Number / Title [DODIC]:</b> Expeditionary Scalable Mobile Air Traffic System						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>				
Procurement Quantity (Units in Each)				-		-		-		2		-		2				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		24.272		-		24.272				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		24.272		-		24.272				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
<b>Total Obligation Authority (\$ in Millions)</b>				-		-		-		<b>24.272</b>		-		<b>24.272</b>				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		-		12.136		-		12.136				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - Expeditionary Scalable Mobile Air Traffic System - MCR Cost																		
Recurring Cost																		
Multi-Capable Radar (MCR) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	18.425	1	18.425	-	-	-	18.425	1	18.425
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	18.425	-	-	-	-	-	18.425
<i>Subtotal: Hardware - Expeditionary Scalable Mobile Air Traffic System - MCR Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>18.425</b>	-	-	-	-	-	<b>18.425</b>
Hardware - Expeditionary Scalable Mobile Air Traffic System Control Tower Cost																		
Recurring Cost																		
Mobile Air Traffic Control Tower (CT) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1.785	1	1.785	-	-	-	1.785	1	1.785
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.785	-	-	-	-	-	1.785
<i>Subtotal: Hardware - Expeditionary Scalable Mobile Air Traffic System Control Tower Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>1.785</b>	-	-	-	-	-	<b>1.785</b>
Logistics - Expeditionary Scalable Mobile Air Traffic System Cost																		
Non Recurring Cost																		
GFE	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Program Office Support Contract Services	-	-	-	-	-	-	-	-	-	-	-	3.062	-	-	-	-	-	3.062

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Expeditionary Scalable Mobile Air Traffic System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.062	-	-	-	-	-	4.062
<i>Subtotal: Logistics - Expeditionary Scalable Mobile Air Traffic System Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.062	-	-	-	-	-	4.062
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	12.136	2	24.272	-	-	-	12.136	2	24.272

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	2	-	2
	Total Obligation Authority	-	-	24.272	-	24.272
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	2	-	2
	<b>Total Obligation Authority</b>	-	-	24.272	-	24.272

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



**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys				<b>Item Number / Title [DODIC]:</b> Expeditionary Scalable Mobile Air Traffic System					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Multi-Capable Radar (MCR) <sup>(†)</sup>		2023	TBD / TBD	C / FFP	AFRICOM	Feb 2023	Feb 2025	1	18.425	Y		
Mobile Air Traffic Control Tower (CT) <sup>(†)</sup>		2023	TBD / TBD	C / FFP	AFRICOM	Feb 2023	Feb 2024	1	1.785	Y		

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



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys										<b>Item Number / Title [DODIC]:</b> Expeditionary Scalable Mobile Air Traffic System									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							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			
Multi-Capable Radar (MCR)																																	
	1	2023	AF	1	0	1	-	-	-	-	1																			0			
Mobile Air Traffic Control Tower (CT)																																	
	2	2023	AF	1	1	0																								0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys
<b>Item Number / Title [DODIC]:</b> Expeditionary Scalable Mobile Air Traffic System		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	1	1	4	3	5	24	29	0	0	0	0
2	TBD - TBD	1	1	4	3	5	12	17	0	0	0	0

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

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys						<b>Item Number / Title [DODIC]:</b> FB NAVAIDs FOS TACAN/VORTAC						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>				
Procurement Quantity (Units in Each)				-		-		-		1		-		1				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		7.788		-		7.788				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		7.788		-		7.788				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
<b>Total Obligation Authority (\$ in Millions)</b>				-		-		-		<b>7.788</b>		-		<b>7.788</b>				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		-		7.788		-		7.788				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - FB NAVAIDs FOS TACAN/VORTAC Cost																		
Non Recurring Cost																		
Depot Equipment Versatile Depot Automatic Test Station (VDATS) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	5.920	1	5.920	-	-	-	5.920	1	5.920
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.920	-	-	-	-	-	5.920
<i>Subtotal: Hardware - FB NAVAIDs FOS TACAN/VORTAC Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.920	-	-	-	-	-	5.920
Support - FB NAVAIDs FOS TACAN/VORTAC Cost																		
VDATS Software Testing/Integration	-	-	-	-	-	-	-	-	-	-	-	1.720	-	-	-	-	-	1.720
Program Support Cost (PSC) Contractor Services	-	-	-	-	-	-	-	-	-	-	-	0.148	-	-	-	-	-	0.148
<i>Subtotal: Support - FB NAVAIDs FOS TACAN/VORTAC Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.868	-	-	-	-	-	1.868
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	7.788	1	7.788	-	-	-	7.788	1	7.788
<b>Secondary Distribution</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>						
AF	Quantity			-		-		1		-		1						

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> FB NAVAIDs FOS TACAN/VORTAC
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>						
	Total Obligation Authority	-	-	7.788	-	7.788
<b>Total:</b>	<b>Quantity</b>	-	-	1	-	1
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	7.788	-	7.788

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys				<b>Item Number / Title [DODIC]:</b> FB NAVAIDs FOS TACAN/VORTAC					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Depot Equipment Versatile Depot Automatic Test Station (VDATS) <sup>(†)</sup>		2023	555th SEWS / Tinker AFB, OK	PO	AFLCMC Tinker AFB	Jan 2023	Nov 2023	1	5.920	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> FB NAVAIDS FOS TACAN/VORTAC
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Depot Equipment Versatile Depot Automatic Test Station (VDATS)																															
1	2023	AF		1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> FB NAVAIDS FOS TACAN/VORTAC
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	555th SEWS - Tinker AFB, OK	1	1	1	3	4	10	14	0	0	0	0

**Remarks:**  
MSR is one system per year. Only one VDATS funded (FY23 - delivered in FY24).

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys						<b>Item Number / Title [DODIC]:</b> Fixed Base Instrument Landing System								
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>											
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>						
Procurement Quantity (Units in Each)				-		2		-		-		-		-						
Gross/Weapon System Cost (\$ in Millions)				-		1.498		-		-		-		-						
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Net Procurement (P-1) (\$ in Millions)				-		1.498		-		-		-		-						
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
<b>Total Obligation Authority (\$ in Millions)</b>				-		<b>1.498</b>		-		-		-		-						
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																				
Initial Spares (\$ in Millions)				-		0.000		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Millions)				-		0.749		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
<b>Cost Elements</b>		<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>			
		<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	
Hardware - Fixed Base ILS Cost																				
Recurring Cost																				
GRN-29 ILS(†)		-	-	-	0.330	2	0.660	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Recurring Cost</i>		-	-	-	-	-	0.660	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Hardware - Fixed Base ILS Cost</i>		-	-	-	-	-	0.660	-	-	-	-	-	-	-	-	-	-	-		
Support - Fixed Base ILS Cost																				
Program Support Cost (PSC) Contractor Services		-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-		
Installation		-	-	-	-	-	0.438	-	-	-	-	-	-	-	-	-	-	-		
Shipping		-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-		
Fiber Optic Cable		-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Support - Fixed Base ILS Cost</i>		-	-	-	-	-	0.838	-	-	-	-	-	-	-	-	-	-	-		
<b>Gross/Weapon System Cost</b>		-	-	-	0.749	2	1.498	-	-	-	-	-	-	-	-	-	-	-		
<b>Secondary Distribution</b>						<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
AF		Quantity				2			-			-			-			-		
		Total Obligation Authority				1.498			-			-			-			-		
<b>Total:</b>		<b>Quantity</b>				<b>2</b>			<b>-</b>			<b>-</b>			<b>-</b>			<b>-</b>		

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force			<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys		<b>Item Number / Title [DODIC]:</b> Fixed Base Instrument Landing System		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	1.498	-	-	-	-

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Fixed Base Instrument Landing System
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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
GRN-29 ILS <sup>(†)</sup>		2021	Selex / Kansas, KS	SS / FFP	AFLCMC Tinker AFB	Mar 2022	Nov 2022	2	0.330	Y		Jan 2022

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Fixed Base Instrument Landing System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C #	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
GRN-29 ILS																															
1	2021	AF		2	0	2																									

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Fixed Base Instrument Landing System
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Selex - Kansas, KS	2	2	2	1	18	8	26	0	0	0	0

**Remarks:**  
Systems procured through GSA contract.

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys						<b>Item Number / Title [DODIC]:</b> Fixed Base Precision Approach Radar (PAR)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	
Procurement Quantity (Units in Each)				-		1			-			-			-		-	
Gross/Weapon System Cost (\$ in Millions)				-		5.728			-			-			-		-	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				-		5.728			-			-			-		-	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				-		<b>5.728</b>			-			-			-		-	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		0.457			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Millions)				-		5.728			-			-			-		-	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Hardware - Fixed Base Precision Approach Radar (PAR) Cost																		
Recurring Cost																		
AN/FPN-68 <sup>(†)</sup>	-	-	-	2.630	1	2.630	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	2.630	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Fixed Base Precision Approach Radar (PAR) Cost	-	-	-	-	-	2.630	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fixed Base Precision Approach Radar (PAR) Cost																		
Support Equip	-	-	-	-	-	0.597	-	-	-	-	-	-	-	-	-	-	-	-
Installation	-	-	-	-	-	0.314	-	-	-	-	-	-	-	-	-	-	-	-
Program Support Costs Contractor Services	-	-	-	-	-	1.810	-	-	-	-	-	-	-	-	-	-	-	-
Program Support Costs Other Government Costs	-	-	-	-	-	0.377	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Fixed Base Precision Approach Radar (PAR) Cost	-	-	-	-	-	3.098	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	5.728	1	5.728	-	-	-	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>						<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	
AF	Quantity					1			-			-			-		-	

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Fixed Base Precision Approach Radar (PAR)

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
	Total Obligation Authority	5.728	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	1	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	5.728	-	-	-	-

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



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys				<b>Item Number / Title [DODIC]:</b> Fixed Base Precision Approach Radar (PAR)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
AN/FPN-68 <sup>(†)</sup>		2021	L-3 Harris / Van Nuys, CA	SS / FFP	AFLCMC Tinker AFB	Apr 2021	Nov 2023	1	2.630	Y		

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys										<b>Item Number / Title [DODIC]:</b> Fixed Base Precision Approach Radar (PAR)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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

AN/FPN-68																																		
1	2021	AF		1	0	1																												1

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys
		<b>Item Number / Title [DODIC]:</b> Fixed Base Precision Approach Radar (PAR)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	L-3 Harris - Van Nuys, CA	1	5	8	0	0	0	0	0	3	7	31	38

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Manportable TACAN

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	6.024	5.971	-	5.971
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	6.024	5.971	-	5.971
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>6.024</b>	<b>5.971</b>	-	<b>5.971</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Manportable TACAN Cost</b>																		
Recurring Cost																		
MP-TACAN <sup>(†)</sup>	-	-	-	-	-	-	1.045	5	5.224	1.032	5	5.160	-	-	-	1.032	5	5.160
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	5.224	-	-	5.160	-	-	-	-	-	5.160
<i>Subtotal: Hardware - Manportable TACAN Cost</i>	-	-	-	-	-	-	-	-	<b>5.224</b>	-	-	<b>5.160</b>	-	-	-	-	-	<b>5.160</b>
<b>Support - Manportable TACAN Cost</b>																		
Program Support Cost (PSC) Contractor Services	-	-	-	-	-	-	-	-	0.800	-	-	0.811	-	-	-	-	-	0.811
<i>Subtotal: Support - Manportable TACAN Cost</i>	-	-	-	-	-	-	-	-	<b>0.800</b>	-	-	<b>0.811</b>	-	-	-	-	-	<b>0.811</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	<b>6.024</b>	-	-	<b>5.971</b>	-	-	-	-	-	<b>5.971</b>

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	-	6.024	5.971	-	5.971
<b>Total: Secondary Distribution</b>	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	-	<b>6.024</b>	<b>5.971</b>	-	<b>5.971</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Manportable TACAN
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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
MP-TACAN <sup>(†)</sup>		2022	TBD / TBD	C / FFP	AFLCMC Tinker AFB	Aug 2022	Nov 2023	5	1.045	Y		
MP-TACAN <sup>(†)</sup>		2023	TBD / TBD	C / FFP	AFLCMC Tinker AFB	Jan 2023	Apr 2024	5	1.032	Y		

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys	<b>Item Number / Title [DODIC]:</b> Manportable TACAN
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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
MP-TACAN																															
	1	2022	AF	5	0	5	-	1	-	1	1	1	1																0		
	1	2023	AF	5	0	5	-	-	-	-	-	-	1	1	1	1													0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3				<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control and Landing Sys				<b>Item Number / Title [DODIC]:</b> Manportable TACAN				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	5	12	12	0	0	0	0	3	4	15	19

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

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	7.172	2.940	1.597	-	1.597	3.115	3.370	3.465	3.534	-	25.193
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	7.172	2.940	1.597	-	1.597	3.115	3.370	3.465	3.534	-	25.193
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>7.172</b>	<b>2.940</b>	<b>1.597</b>	-	<b>1.597</b>	<b>3.115</b>	<b>3.370</b>	<b>3.465</b>	<b>3.534</b>	-	<b>25.193</b>

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

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

**Description:**

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

BATTLE CONTROL SYSTEM-FIXED (BCS-F): BCS-F is a Bi-national program with Canada. The BCS-F Program is an AF Homeland Defense battle management command and control system with the capability to integrate data from existing and future civil and military defense surveillance systems into a comprehensive air picture. BCS-F provides tactical communications and data link capabilities with other military and civil systems responsible for planning, directing, coordinating and controlling forces for air surveillance, air defense, and control of sovereign US air space. This integrated air picture enhances the capability to conduct peacetime air sovereignty operations and transition to active air defense operations in the event of aggression. 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 NCR airspace, by delivering an integrated air picture, ground air defense weapons, enhanced regional situational awareness and forensic data collection capabilities to support 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.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Region/Sector Operation Control Center Modernization Program	P-5a, P-21	A		- / -	- / 3.114	- / 2.940	- / 1.597	- / -	- / 1.597
P-5	Wide Area Surveillance	P-5a, P-21	A		- / -	- / 4.058	- / 0.000	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 7.172</b>	<b>- / 2.940</b>	<b>- / 1.597</b>	<b>- / -</b>	<b>- / 1.597</b>

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

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

**Justification:**

- NATIONAL CAPITAL REGION - INTEGRATED AIR DEFENSE SYSTEM (NCR-IADS): FY2023 funds will include, but are not limited to, support hardware upgrades to seamlessly integrate new and emerging sensors, data, and technologies and refresh the legacy camera systems to address mission critical components DMSMS issues. 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.
- BATTLE CONTROL SYSTEM MODERNIZATION: FY2023 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.
- PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY2023 funds for PMA costs provide the management, engineering and technical support for the program office.
- 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed	<b>Item Number / Title [DODIC]:</b> Region/Sector Operation Control Center Modernization Program

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	3.114	2.940	1.597	-	1.597
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	3.114	2.940	1.597	-	1.597
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>3.114</b>	<b>2.940</b>	<b>1.597</b>	-	<b>1.597</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Battle Control System Fixed Cost</b>																		
Recurring Cost																		
Tech Refresh <sup>(†)</sup>	-	-	-	-	-	-	0.254	8	2.030	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.030	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Battle Control System Fixed Cost</i>	-	-	-	-	-	-	-	-	2.030	-	-	-	-	-	-	-	-	-
<b>Support - Battle Control System Fixed Cost</b>																		
Contractor Services Support	-	-	-	-	-	3.114	-	-	0.910	-	-	1.597	-	-	-	-	-	1.597
<i>Subtotal: Support - Battle Control System Fixed Cost</i>	-	-	-	-	-	3.114	-	-	0.910	-	-	1.597	-	-	-	-	-	1.597
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	3.114	-	-	2.940	-	-	1.597	-	-	-	-	-	1.597

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed				<b>Item Number / Title [DODIC]:</b> Region/Sector Operation Control Center Modernization Program					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Tech Refresh <sup>(†)</sup>		2022	Booz Allen Hamilton / Lexington, MA	C / CPFF	Hanscom AFB	Jun 2022	Aug 2022	8	0.254	Y		Jan 2022

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed										<b>Item Number / Title [DODIC]:</b> Region/Sector Operation Control Center Modernization Program									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C 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

Tech Refresh																																			
1	2022	AF		8	0	8																													0

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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed
<b>Item Number / Title [DODIC]:</b> Region/Sector Operation Control Center Modernization Program		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Booz Allen Hamilton - Lexington, MA				0	9	2	11	0	0	0	0

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

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



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	4.058	0.000	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	4.058	0.000	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>4.058</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - NCR-IADS Cost</b>																		
Non Recurring Cost																		
Visual Warning System (VWS) <sup>(†)</sup>	-	-	-	0.146	13	1.898	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Camera Tech Refresh <sup>(†)</sup>	-	-	-	1.056	2	2.111	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	4.009	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - NCR-IADS Cost</i>	-	-	-	-	-	4.009	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Support - NCR-IADS Cost</b>																		
Contractor Support Services	-	-	-	-	-	0.049	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - NCR-IADS Cost</i>	-	-	-	-	-	0.049	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	4.058	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

<sup>(†)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed	<b>Item Number / Title [DODIC]:</b> 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
Visual Warning System (VWS) <sup>(†)</sup>		2021	Global Technology Integrators / Orlando, FL	C / FFP	Hanscom AFB	Jun 2021	Nov 2021	13	0.146	Y		
Camera Tech Refresh <sup>(†)</sup>		2021	TBD / TBD	TBD	Hanscom AFB	Aug 2022	Nov 2022	2	1.056	Y		

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE													
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022																										
							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																	
Visual Warning System (VWS)																																															
1	2021	AF		13	0	13																								A	-	-	-	-	-	2	-	-	-	-	-	-	-	9	2		0
Camera Tech Refresh																																															
2	2021	AF		2	0	2																																									
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
Visual Warning System (VWS)																												0							
	1	2021	AF	13	13	0																													
Camera Tech Refresh																												0							
	2	2021	AF	2	0	2	-	2																											
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Global Technology Integrators - Orlando, FL	13	13	13	0	9	5	14	0	0	0	0
2	TBD - TBD	2	2	2	0	23	3	26	0	0	0	0

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

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	28.553	43.442	9.611	-	9.611	8.268	80.662	60.059	36.841	0.000	267.436
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	28.553	43.442	9.611	-	9.611	8.268	80.662	60.059	36.841	0.000	267.436
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>28.553</b>	<b>43.442</b>	<b>9.611</b>	-	<b>9.611</b>	<b>8.268</b>	<b>80.662</b>	<b>60.059</b>	<b>36.841</b>	<b>0.000</b>	<b>267.436</b>

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

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

**Description:**

The 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-250 Multifunctional Information Distribution System-Joint Tactical Radio System (MIDS-JTRS), AN/TRC-213/214 Remote Radio Secure Voice System (RRSVS), and the AN/TPS-75 Radar, CRC's organic radar. 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 FY23, total include 20.155M producing AN/TRC-214 (V)2 and modifying AN-TRC 213 (V)3.

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	13	21	2	-	2	-	-	-	-
Total Obligation Authority	22.753	35.467	6.407	-	6.407	-	0.000	0.000	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AFNG	Quantity	3	5	1	-	1	-	-	-	-
	Total Obligation Authority	5.800	7.975	3.204	-	3.204	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>16</b>	<b>26</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>28.553</b>	<b>43.442</b>	<b>9.611</b>	<b>-</b>	<b>9.611</b>	<b>-</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Theater Air Control System Improvement	P-5a, P-21	A		- / -	16 / 28.553	26 / 43.442	3 / 9.611	- / -	3 / 9.611
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 28.553	- / 43.442	- / 9.611	- / -	- / 9.611

\*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:**

FY23 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.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvemen	<b>Item Number / Title [DODIC]:</b> Theater Air Control System Improvement

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	16	26	3	-	3
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	28.553	43.442	9.611	-	9.611
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	28.553	43.442	9.611	-	9.611
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>28.553</b>	<b>43.442</b>	<b>9.611</b>	-	<b>9.611</b>

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	1.785	1.671	3.204	-	3.204

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Theater Air Control System Improvement Cost																		
Recurring Cost																		
Remote Radio System, Modifying Interface Unit <sup>(†)</sup>	-	-	-	1.785	16	28.553	1.738	25	43.442	3.204	3	9.611	-	-	-	3.204	3	9.611
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	28.553	-	-	43.442	-	-	9.611	-	-	-	-	-	9.611
<i>Subtotal: Hardware - Theater Air Control System Improvement Cost</i>	-	-	-	-	-	28.553	-	-	43.442	-	-	9.611	-	-	-	-	-	9.611
<b>Gross/Weapon System Cost</b>	-	-	-	1.785	16	28.553	1.671	26	43.442	3.204	3	9.611	-	-	-	3.204	3	9.611

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	13	21	2	-	2
	Total Obligation Authority	22.753	35.467	6.407	-	6.407
AFNG	Quantity	3	5	1	-	1
	Total Obligation Authority	5.800	7.975	3.204	-	3.204
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>16</b>	<b>26</b>	<b>3</b>	-	<b>3</b>
	<b>Total Obligation Authority</b>	<b>28.553</b>	<b>43.442</b>	<b>9.611</b>	-	<b>9.611</b>

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvemen	<b>Item Number / Title [DODIC]:</b> Theater Air Control System Improvement
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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
Remote Radio System, Modifying Interface Unit <sup>(†)</sup>		2021	NAWC/BAE / Pax River, MD	Various	NAVAIR	Sep 2021	Jan 2023	16	1.785	Y		Mar 2021
Remote Radio System, Modifying Interface Unit <sup>(†)</sup>		2022	NAWC/BAE / Pax River, MD	Various	NAVAIR	Sep 2022	Jan 2024	25	1.738	Y		
Remote Radio System, Modifying Interface Unit <sup>(†)</sup>		2023	NAWC/BAE / Pax River, MD	Various	NAVAIR	Sep 2023	Jan 2025	3	3.204	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvemen	<b>Item Number / Title [DODIC]:</b> Theater Air Control System Improvement
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022															
							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			
Remote Radio System, Modifying Interface Unit																																		
1		2021	AF	16	0	16													A	-	-	-	-	-	-	-	-	-	-	-	-	-	16	
1		2022	AF	25	0	25																										A	-	25
1		2023	AF	3	0	3																												3
							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 2023 Air Force **Date:** April 2021

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Remote Radio System, Modifying Interface Unit																																	
1		2021	AF	16	0	16	-	-	-	16																			0				
1		2022	AF	25	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	0					
1		2023	AF	3	0	3													A	-	-	-	-	-	-	-	-	3					
							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 2023 Air Force **Date:** April 2021

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							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
Remote Radio System, Modifying Interface Unit																															
1		2021	AF	16	16	0																							0		
1		2022	AF	25	25	0																							0		
1		2023	AF	3	0	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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvemen
		<b>Item Number / Title [DODIC]:</b> Theater Air Control System Improvement

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	NAWC/BAE - Pax River, MD	1	13	100	0	0	0	0	1	12	16	28

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	96.186	174.640	-	174.640	32.640	95.717	107.309	133.820	-	640.312
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	96.186	174.640	-	174.640	32.640	95.717	107.309	133.820	-	640.312
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>96.186</b>	<b>174.640</b>	-	<b>174.640</b>	<b>32.640</b>	<b>95.717</b>	<b>107.309</b>	<b>133.820</b>	-	<b>640.312</b>

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

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

**Description:**

Mission Description: Three-Dimensional Expeditionary Long-Range Radar (3DELRR) is a Middle Tier Acquisition (MTA) program to procure the principal USAF long-range, ground-based sensor for detecting, identifying, tracking and reporting aerial tracks for the Joint Force Air Component Commander (JFACC). 3DELRR replaces the aging United States Air Force (USAF) AN/TPS-75 radar system, which is at the end of its service life and costly to maintain and 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. 3DELRR Rapid Prototyping MTA program will provide the exchange of information to the United States Marine Corps, Navy and Army via appropriate interfaces.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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, P-21	B		- / -	- / 0.000	- / 96.186	- / 174.640	- / -	- / 174.640
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>- / 96.186</b>	<b>- / 174.640</b>	<b>- / -</b>	<b>- / 174.640</b>

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

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

**Justification:**  
 Justification: 3DELRR FY23 funding will include but not limited to the production and procurement of eight (8) radars. Four (4) radars will, combined with the initial two (2) systems ordered in FY22, complete the six (6) radar units for systems testing and achieve initial operational capability (IOC). The additional four (4) systems will begin production towards full operational capability (FOC). Eight (8) systems need to be ordered in FY23 to replace the TPS-75s currently in operation which are rapidly degrading due to Direct Military Support (DMS) issues.

Prior to initiating Rapid Fielding activities, Program Executive Officer (PEO) Digital will obtain System Acquisition Authority (SAE) approval in accordance with the Acquisition Strategy.

3DELRR procurement strategy is planned to execute funding on various Contract Line Item Number (CLIN) options for production and procurement of a total of 35 radars. Due to stable requirements and the low risk of changes in scope, fixed price production options built into the current integration contract will be used for procurement of 35 units. 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. Additional options enable the production of the 29 production quality units for a total of 35 units required at Full Operational Capability (FOC).

Interim Contractor Support (ICS) will be required 15 months after contract award. ICS is expected to be required at the end of FY23 for the initial two (2) production units that will be ordered in FY22.

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.

3DELRR is an MTA program. The MDA for the 3DELRR program is the Assistant Secretary of the Air Force (Acquisition). The USAF PEO for Digital Directorate 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 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833060 / 3D Expeditionary Long-Range Radar	<b>Item Number / Title [DODIC]:</b> 3D Expeditionary Long-Range Radar
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	96.186	174.640	-	174.640
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	96.186	174.640	-	174.640
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.000</b>	<b>96.186</b>	<b>174.640</b>	-	<b>174.640</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares (\$ in Millions)	-	-	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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - 3D Expeditionary Long-Range Radar Cost</b>																		
Recurring Cost																		
Initial Production Units <sup>(†)</sup>	-	-	-	-	-	-	31.751	2	63.502	19.820	8	158.563	-	-	-	19.820	8	158.563
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	63.502	-	-	158.563	-	-	-	-	-	158.563
Non Recurring Cost																		
Initial Production NRE	-	-	-	-	-	-	-	-	18.460	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	18.460	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - 3D Expeditionary Long-Range Radar Cost</i>	-	-	-	-	-	-	-	-	<b>81.962</b>	-	-	<b>158.563</b>	-	-	-	-	-	<b>158.563</b>
<b>Support - 3D Expeditionary Long-Range Radar Cost</b>																		
Program Management Administration	-	-	-	-	-	0.000	-	-	11.018	-	-	7.019	-	-	-	-	-	7.019
Direct Mission Support	-	-	-	-	-	0.000	-	-	3.206	-	-	9.058	-	-	-	-	-	9.058
ICS	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - 3D Expeditionary Long-Range Radar Cost</i>	-	-	-	-	-	<b>0.000</b>	-	-	<b>14.224</b>	-	-	<b>16.077</b>	-	-	-	-	-	<b>16.077</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>0.000</b>	-	-	<b>96.186</b>	-	-	<b>174.640</b>	-	-	-	-	-	<b>174.640</b>

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

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833060 / 3D Expeditionary Long-Range Radar	<b>Item Number / Title [DODIC]:</b> 3D Expeditionary Long-Range Radar
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>	

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833060 / 3D Expeditionary Long-Range Radar	<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2022	TBD / TBD	TBD	AFLCMC/HB - Battle Management	Feb 2022	Oct 2023	2	31.751	N	Apr 2021	
Initial Production Units <sup>(†)</sup>		2023	TBD / TBD	TBD	AFLCMC/HB - Battle Management	Feb 2023	Oct 2024	8	19.820	N	Aug 2021	

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														BALANCE	
O C C #	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					
Initial Production Units																																			
1		2022	AF	2	0	2																								2					
		2023	AF	8	0	8																								8					
							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 2023 Air Force **Date:** April 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

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
Initial Production Units																															
1		2022	AF	2	0	2	1	-	1																				0		
1		2023	AF	8	0	8	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833060 / 3D Expeditionary Long-Range Radar	<b>Item Number / Title [DODIC]:</b> 3D Expeditionary Long-Range Radar
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	2	8	12	1	5	20	25	0	0	0	0

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



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305111F

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	29.759	32.376	20.658	-	20.658	28.447	30.958	31.794	32.420	-	206.412
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	29.759	32.376	20.658	-	20.658	28.447	30.958	31.794	32.420	-	206.412
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>29.759</b>	<b>32.376</b>	<b>20.658</b>	-	<b>20.658</b>	<b>28.447</b>	<b>30.958</b>	<b>31.794</b>	<b>32.420</b>	-	<b>206.412</b>

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

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

**Description:**

PE 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) transitioned to the Weather Data Collection capability area to better align data collection efforts. In FY 2023, a portion of the Weather Data Collection Systems funding and activities will transfer from PE 0305111F, Weather Service, to PEs 1205111SF and 1203940SF, Space Situational Awareness Operations, in order to consolidate space sensing efforts under the Space Force.

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 was renamed to FBWS. The FBWS program is responsible for the management of 396 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305111F
<b>Line Item MDAP/MAIS Code:</b> N/A		

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.

B. Ionospheric Ground Sensors (IGS) - IGS capital equipment replacement consists of fielding Next Generation Ionosonde (NEXION), Ionospheric Scintillation Total electron content Observer (ISTO), and other similar equipment. IGS contributes to Intelligence, Surveillance, Reconnaissance, Environment (ISRE) efforts, permitting full space domain knowledge, which enables Space Domain Awareness (SDA) Data Integration & Exploitation (DI&E) key to timely Battle Management Command and Control (BMC2) decision making/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 Ultra High Frequency (UHF), and Global Positioning System (GPS) satellite signals. In FY 2023, IGS effort transferred from PE 0305111F, Weather Service, to PE 1203940SF, Space Situational Awareness, to consolidate space-related efforts under the Space Force.

C. Next-Generation Radar (NEXRAD) - NEXRAD is a Tri-agency (National Weather Service, AF, and Federal Aviation Administration) program that manages 159 Doppler weather radars. It provides 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.

D. 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 was the last year that MARK IV-B will reside in the WOF procurement line. In FY 2023, Mark IV-B effort was transferred from PE 0305111F, Weather Service, to PE 1203940SF, Space Situational Awareness, to consolidate space-related efforts under the Space Force.

E. 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, damaged 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. In FY 2023, the SEON effort was transferred from PE 0305111F, Weather Service, to PE 1203940SF, Space Situational Awareness, to consolidate space-related efforts under the Space Force.

F. Expeditionary Weather - 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.

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 interfaces. The Weather Data Analysis and Dissemination capability area currently includes activities for Weather Data Analysis Increment 4 (WDA Inc 4) and WDA capital equipment replacement (CER). In FY 2021, procurement funding for WDA CER was combined under the WDA Inc 4 program of record.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305111F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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; networking equipment for secure, high speed data transfers; enabling server consolidation and virtualization; 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 Ingest, Dissemination, and Enterprise Storage (IDES) projects which provides for storage and capability to move data between various storage devices and application nodes 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 task orders will be used to retire end of life/end of support 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 provides front-line weather information to warfighters in support of combat operations at tactical levels. 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&amp;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&amp;AS). Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305111F

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	P-5a, P-21	A		- / -	- / 1.302	- / 3.249	- / 1.976	- / -	- / 1.976
P-5	Weather Data Collection Systems	P-5a, P-21	A		- / -	- / 15.054	- / 18.824	- / 8.709	- / -	- / 8.709
P-5	Numerical Weather Modeling	P-5a, P-21	A		- / -	- / 2.864	- / 1.611	- / 9.673	- / -	- / 9.673
P-5	WDA Inc-4	P-5a, P-21	A		- / -	- / 10.539	- / 8.692	- / 0.300	- / -	- / 0.300
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 29.759</b>	<b>- / 32.376</b>	<b>- / 20.658</b>	<b>- / -</b>	<b>- / 20.658</b>

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

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

**Justification:**  
PE 0305111F WEATHER SERVICE

1. Weather Data Collection Systems:

A. FBWS: FY 2023 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.

B. IGS: No FY 2023 funding requested.

C. MARK IV-B: No FY 2023 funding requested.

D. NEXRAD: FY 2023 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: No FY 2023 funding requested.

F. Expeditionary Weather (ExMET): FY 2023 funding will continue 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 FY23 funds due to increased fielding of ExMET systems.

2. Weather Data Analysis and Dissemination:

A. WDA Inc 4: FY 2023 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 FY23 funds due to continued transition of WDA Inc 4 applications and capabilities to the AF Weather Virtual Private Cloud (AFW-VPC) platform under WDA Increment 5 (Inc 5) and WARPspeed.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305111F
<b>Line Item MDAP/MAIS Code:</b> N/A		

- 3. Weather Forecasting:
  - A. NWM: FY 2023 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.
- 4. Product Tailoring & Warfighting Apps (PTWA):
  - A. JET: No funding requested for FY 2022 as the SCA procurement portion of JET has been realigned to FWBS.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3				<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast			<b>Item Number / Title [DODIC]:</b> FBWS		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	1.302	3.249	1.976	-	1.976
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	1.302	3.249	1.976	-	1.976
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>1.302</b>	<b>3.249</b>	<b>1.976</b>	-	<b>1.976</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Hardware End Item Cost</b>																		
Recurring Cost																		
FMQ-23 <sup>(†)</sup>	-	-	-	0.130	2	0.260	0.422	2	0.844	0.739	1	0.739	-	-	-	0.739	1	0.739
SCA <sup>(†)</sup>	-	-	-	0.799	1	0.799	1.120	1	1.120	0.285	1	0.285	-	-	-	0.285	1	0.285
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.059	-	-	1.964	-	-	1.024	-	-	-	-	-	1.024
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	1.059	-	-	1.964	-	-	1.024	-	-	-	-	-	1.024
<b>Support - Support End Item Cost</b>																		
TESTING FMQ-23	-	-	-	-	-	0.028	-	-	0.013	-	-	0.013	-	-	-	-	-	0.013
DIRECT MISSION SUPPORT CONTRACTOR SERVICES FMQ-23	-	-	-	-	-	0.096	-	-	0.276	-	-	0.101	-	-	-	-	-	0.101
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES FMQ 23	-	-	-	-	-	0.075	-	-	0.611	-	-	0.453	-	-	-	-	-	0.453
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES FMQ 23	-	-	-	-	-	0.044	-	-	0.385	-	-	0.385	-	-	-	-	-	0.385
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.243	-	-	1.285	-	-	0.952	-	-	-	-	-	0.952

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast						<b>Item Number / Title [DODIC]:</b> FBWS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	1.302	-	-	3.249	-	-	1.976	-	-	-	-	-	1.976

**Remarks:**  
Note: Actual number of systems procured will be dependent on location and site requirements.

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> FBWS
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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
FMQ-23 <sup>(†)</sup>		2021	Mesotech International, Inc. / Sacramento, CA	Various	AFLCMC Hanscom AFB	Jan 2021	Sep 2021	2	0.130	Y		
FMQ-23 <sup>(†)</sup>		2022	Mesotech International, Inc. / Sacramento, CA	Various	AFLCMC Hanscom AFB	Feb 2022	Jun 2022	2	0.422	Y		
FMQ-23 <sup>(†)</sup>		2023	Mesotech International, Inc. / Sacramento, CA	Various	AFLCMC Hanscom AFB	Jan 2023	May 2023	1	0.739	Y		
SCA <sup>(†)</sup>		2021	Raytheon Company / Omaha, NE	Various	AFLCMC Hanscom AFB	Jul 2021	Jun 2022	1	0.799	Y		
SCA <sup>(†)</sup>		2022	Raytheon Company / Omaha, NE	Various	AFLCMC Hanscom AFB	Oct 2021	Jun 2022	1	1.120	Y		
SCA <sup>(†)</sup>		2023	Raytheon Company / Omaha, NE	Various	AFLCMC Hanscom AFB	Mar 2023	Jul 2024	1	0.285	Y		

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022													
							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	
FMQ-23																																
	1	2021	AF	2	0	2																										
	1	2022	AF	2	0	2																										
	1	2023	AF	1	0	1																										
SCA																																
	2	2021	AF	1	0	1																										
	2	2022	AF	1	0	1																										
	2	2023	AF	1	0	1																										

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
FMQ-23																															
	1	2021	AF		2	2																							0		
	1	2022	AF		2	2																							0		
	1	2023	AF		1	0																							0		
SCA																															
	2	2021	AF		1	1																							0		
	2	2022	AF		1	1																							0		
	2	2023	AF		1	0																							0		

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> FBWS
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Mesotech International, Inc. - Sacramento, CA	1	3	8	8	4	4	8	4	0	0	0
2	Raytheon Company - Omaha, NE	1	3	8	6	6	16	22	22	0	0	0

**Remarks:**  
Reorder Prior to 1 Oct is required is N/A as items aren't delivered prior to the fiscal year beginning

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3				<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast			<b>Item Number / Title [DODIC]:</b> Weather Data Collection Systems		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	15.054	18.824	8.709	-	8.709
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	15.054	18.824	8.709	-	8.709
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>15.054</b>	<b>18.824</b>	<b>8.709</b>	-	<b>8.709</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Weather Data Collection Systems Cost</b>																		
Recurring Cost																		
IGS <sup>(†)</sup>	-	-	-	1.000	1	1.000	0.337	4	1.348	-	-	0.000	-	-	-	-	-	0.000
MARK IV-B <sup>(†)</sup>	-	-	-	1.092	1	1.092	1.360	1	1.360	-	-	0.000	-	-	-	-	-	0.000
NEXRAD <sup>(†)</sup>	-	-	-	-	-	2.820	0.402	1	0.402	0.390	1	0.390	-	-	-	0.390	1	0.390
SEON <sup>(†)</sup>	-	-	-	7.077	1	7.077	2.250	1	2.250	-	-	0.000	-	-	-	-	-	0.000
Expeditionary Weather <sup>(†)</sup>	-	-	-	0.026	81	2.103	0.046	165	7.637	0.046	180	8.295	-	-	-	0.046	180	8.295
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<b>14.092</b>	-	-	<b>12.997</b>	-	-	<b>8.685</b>	-	-	-	-	-	<b>8.685</b>
<i>Subtotal: Hardware - Weather Data Collection Systems Cost</i>	-	-	-	-	-	<b>14.092</b>	-	-	<b>12.997</b>	-	-	<b>8.685</b>	-	-	-	-	-	<b>8.685</b>
<b>Support - Weather Data Collection Systems Cost</b>																		
ASSISTANCE AND ADVISORY SERVICE A&AS	-	-	-	0.192	5	0.962	1.457	4	5.827	-	-	0.024	-	-	-	-	-	0.024
INSTALLATION IGS	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Weather Data Collection Systems Cost</i>	-	-	-	-	-	<b>0.962</b>	-	-	<b>5.827</b>	-	-	<b>0.024</b>	-	-	-	-	-	<b>0.024</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>15.054</b>	-	-	<b>18.824</b>	-	-	<b>8.709</b>	-	-	-	-	-	<b>8.709</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Weather Data Collection Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Weather Data Collection Systems
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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
IGS <sup>(†)</sup>		2021	Northrup Grumman / Colorado Springs	C / FFP	ACC	Jun 2021	Dec 2021	1	1.000	Y		
IGS <sup>(†)</sup>		2022	TB D / Colorado Springs	TBD	ACC	Mar 2022	Jun 2022	4	0.337	Y		
MARK IV-B <sup>(†)</sup>		2021	Lockheed Martin Space Systems Company / King of Prussia, PA	C / FFP	AFSFC	Nov 2020	Dec 2020	1	1.092	Y		
MARK IV-B <sup>(†)</sup>		2022	Lockheed Martin Space Systems Company / King of Prussia, PA	C / FFP	AFSPC	Nov 2021	Dec 2021	1	1.360	Y		
NEXRAD <sup>(†)</sup>		2022	Various / Various	MIPR	AFLCMC Tinker AFB	Dec 2021	Jun 2023	1	0.402	Y		
NEXRAD <sup>(†)</sup>		2023	Various / Various	MIPR	AFLCMC Tinker AFB	Dec 2022	Jun 2024	1	0.390	Y		
SEON <sup>(†)</sup>		2021	Various / TY AD	PO	ARMY/ACC	Jan 2021	Jan 2021	1	7.077	Y		
SEON <sup>(†)</sup>		2022	Various / TY AD	RO	ARMY/ACC	Jan 2022	Jan 2022	1	2.250	Y		
Expeditionary Weather <sup>(†)</sup>		2021	Intellisense Systems, Inc / Torrance, CA	TBD	AFLCMC Hanscom AFB	Apr 2021	May 2021	81	0.026	Y		
Expeditionary Weather <sup>(†)</sup>		2022	Intellisense Systems, Inc / Torrance, CA	TBD	AFLCMC Hanscom AFB	May 2022	Nov 2023	165	0.046	Y		
Expeditionary Weather <sup>(†)</sup>		2023	Intellisense Systems, Inc / Torrance, CA	TBD	AFLCMC Hanscom AFB	Apr 2023	Oct 2024	180	0.046	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

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

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021															Fiscal Year 2022															BALANCE														
O C C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021															Calendar Year 2022																													
							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																					
IGS																																																			
1		2021	AF		1	0	1											A -	-	-	-	-	-	-	-	1						0																			
2		2022	AF		4	0	4																							A -	-	-	-	4	0																
MARK IV-B																																																			
3		2021	AF		1	0	1												A -		1												0																		
3		2022	AF		1	0	1																					A -		1				0																	
NEXRAD																																																			
4		2022	AF		1	0	1																						A -	-	-	-	-	-	1																
4		2023	AF		1	0	1																												1																
SEON																																																			
5		2021	AF		1	0	1																											0																	
5		2022	AF		1	0	1																									A1		0																	
Expeditionary Weather																																																			
6		2021	AF		81	0	81													A -		81												0																	
6		2022	AF		165	0	165																								A -	-	-	-	165																
6		2023	AF		180	0	180																												180																
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 10px;"> <tr> <td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td><td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td> </tr> </table>																												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
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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Weather Data Collection Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
IGS																																	
	1	2021	AF	1	1	0																							0				
	2	2022	AF	4	4	0																							0				
MARK IV-B																																	
	3	2021	AF	1	1	0																							0				
	3	2022	AF	1	1	0																							0				
NEXRAD																																	
	4	2022	AF	1	0	1	-	-	-	-	-	-	-	-	1														0				
	4	2023	AF	1	0	1			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0				
SEON																																	
	5	2021	AF	1	1	0																							0				
	5	2022	AF	1	1	0																							0				
Expeditionary Weather																																	
	6	2021	AF	81	81	0																							0				
	6	2022	AF	165	0	165	-	-	-	-	-	-	-	-	-	-	-	-	85	80									0				
	6	2023	AF	180	0	180																							180				
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	B	A	P	A	U	U	A	S		
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Weather Data Collection Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025														Fiscal Year 2026														BALANCE	
O C C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026														
							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					
IGS																																			
	1	2021	AF	1	1	0																								0					
	2	2022	AF	4	4	0																								0					
MARK IV-B																																			
	3	2021	AF	1	1	0																								0					
	3	2022	AF	1	1	0																								0					
NEXRAD																																			
	4	2022	AF	1	1	0																								0					
	4	2023	AF	1	1	0																								0					
SEON																																			
	5	2021	AF	1	1	0																								0					
	5	2022	AF	1	1	0																								0					
Expeditionary Weather																																			
	6	2021	AF	81	81	0																								0					
	6	2022	AF	165	165	0																								0					
	6	2023	AF	180	0	180	75	75	-	-	-	-	-	-	-	-	-	-	30											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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Weather Data Collection Systems
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Northrup Grumman - Colorado Springs				0	0	0	0	0	0	0	0	0
2	TB D - Colorado Springs	1	1	4	0	0	0	0	4	6	3	9	
3	Lockheed Martin Space Systems Company - King of Prussia, PA	1	1	1	0	0	0	0	1	2	1	3	
4	Various - Various	1	1	1	0	0	0	0	1	3	18	21	
5	Various - TY AD	1	1	1	0	0	0	0	1	4	0	4	
6	Intellisense Systems, Inc - Torrance, CA	30	120	400	0	0	0	0	25	7	18	25	

**Remarks:**

SEON/IGS sites (5) are sustained and are not produced - MSR/MAX/ECON are N/A for this  
 MARK4B again not produced so N/A  
 NEXRAD sites are maintained and updated/fixed but not produced so N/A as well

Reorder Prior to 1 Oct is required is N/A as items aren't delivered prior to the fiscal year beginning

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Numerical Weather Modeling

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.864	1.611	9.673	-	9.673
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.864	1.611	9.673	-	9.673
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.864</b>	<b>1.611</b>	<b>9.673</b>	-	<b>9.673</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - Numerical Weather Modeling Cost																		
Recurring Cost																		
Numerical Weather Modeling <sup>(t)</sup>	-	-	-	2.864	1	2.864	1.611	1	1.611	9.673	1	9.673	-	-	-	9.673	1	9.673
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.864	-	-	1.611	-	-	9.673	-	-	-	-	-	9.673
<i>Subtotal: Hardware - Numerical Weather Modeling Cost</i>	-	-	-	-	-	2.864	-	-	1.611	-	-	9.673	-	-	-	-	-	9.673
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	2.864	-	-	1.611	-	-	9.673	-	-	-	-	-	9.673

<sup>(t)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Numerical Weather Modeling
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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
Numerical Weather Modeling <sup>(†)</sup>		2021	Northrup Grumman / Bellevue, NE	MIPR	AFLCMC/HB - Battle Management	May 2021	Dec 2021	1	2.864	Y		
Numerical Weather Modeling <sup>(†)</sup>		2022	Northrup Grumman / Bellevue, NE	MIPR	AFLCMC/HB - Battle Management	May 2022	Dec 2022	1	1.611	Y		
Numerical Weather Modeling <sup>(†)</sup>		2023	Northrup Grumman / Bellevue, NE	MIPR	AFLCMC/HB - Battle Management	May 2023	Dec 2023	1	9.673	Y		

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> Numerical Weather Modeling
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024										B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024										
							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
Numerical Weather Modeling																															
	1	2021	AF	1	1	0																							0		
	1	2022	AF	1	0	1	-	-	1																				0		
	1	2023	AF	1	0	1																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
		<b>Item Number / Title [DODIC]:</b> Numerical Weather Modeling

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Northrup Grumman - Bellevue, NE	1	1	1	8	8	7	15	0	0	0	0

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> WDA Inc-4

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	10.539	8.692	0.300	-	0.300
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	10.539	8.692	0.300	-	0.300
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>10.539</b>	<b>8.692</b>	<b>0.300</b>	-	<b>0.300</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - WDA Inc-4 Cost</b>																		
Non Recurring Cost																		
Hardware-Weather Service Cost <sup>(t)</sup>	-	-	-	8.992	1	8.992	7.998	1	7.998	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	8.992	-	-	7.998	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - WDA Inc-4 Cost</i>	-	-	-	-	-	<b>8.992</b>	-	-	<b>7.998</b>	-	-	-	-	-	-	-	-	-
<b>Support - WDA Inc-4 Cost</b>																		
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES	-	-	-	-	-	1.082	-	-	0.501	-	-	-	-	-	-	-	-	-
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES	-	-	-	-	-	0.465	-	-	0.193	0.300	1	0.300	-	-	-	0.300	1	0.300
<i>Subtotal: Support - WDA Inc-4 Cost</i>	-	-	-	-	-	<b>1.547</b>	-	-	<b>0.694</b>	-	-	<b>0.300</b>	-	-	-	-	-	<b>0.300</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>10.539</b>	-	-	<b>8.692</b>	-	-	<b>0.300</b>	-	-	-	-	-	<b>0.300</b>

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



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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> WDA Inc-4
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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
Hardware-Weather Service Cost <sup>(†)</sup>		2021	Various / Various	Various	AFLCMC/HB - Battle Management	Sep 2021	Sep 2021	1	8.992	Y		
Hardware-Weather Service Cost <sup>(†)</sup>		2022	Various / Various	Various	AFLCMC/HB - Battle Management	Feb 2022	Aug 2022	1	7.998	Y		

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

**Remarks:**  
Advised to input Yes as SPECS aren't applied to WDA Inc 4 as more development with RDT&E is not needed.

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
<b>Item Number / Title [DODIC]:</b> WDA Inc-4	

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A S O F 1 O C T	Calendar Year 2021												Calendar Year 2022												
							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
Hardware-Weather Service Cost																															
	1	2021	AF	1	0	1													A1												0
	1	2022	AF	1	0	1													A - - - - - - 1												0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
		<b>Item Number / Title [DODIC]:</b> WDA Inc-4

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	0	0	0	0	0	11	5	6	11

**Remarks:**  
Reorder Prior to 1 Oct is required is N/A as items aren't delivered prior to the fiscal year beginning

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): **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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	27.640	38.162	93.351	-	93.351	35.324	32.268	33.114	33.203	-	293.062
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	27.640	38.162	93.351	-	93.351	35.324	32.268	33.114	33.203	-	293.062
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>27.640</b>	<b>38.162</b>	<b>93.351</b>	-	<b>93.351</b>	<b>35.324</b>	<b>32.268</b>	<b>33.114</b>	<b>33.203</b>	-	<b>293.062</b>

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

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

**Description:**

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

B-2 SUPPORT: The B-2 weapon system relies heavily on C2 equipment to meet its operational capability. Funding is used to replace obsolete computer equipment, backbone infrastructure hardware and software, and long haul communications equipment at the Weapon System Support Center (WSSC) Ground Test Facility (GTF), and contractor laboratories. This includes commercial off-the-shelf (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 WSSC 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 0101238F - Long Range Standoff - P-40A

The purpose of this program is to conduct and support United States Air Force (USAF) and Joint Department of Defense (DoD) / Department of Energy (DOE) acquisition activities for the modernization of nuclear weapons.

The Long Range Stand Off (LRSO) Cruise Missile is a long range survivable stand-off weapon capable of delivering lethal nuclear effect on strategic targets. LRSO will replace the currently fielded Air Launched Cruise Missile (ALCM) and will be integrated on both legacy and future bomber aircraft. The LRSO weapon system will be capable of penetrating and surviving advanced Integrated Air Defense Systems (IADS) from significant stand-off range to prosecute strategic targets in support of the Air Force's global attack capability and strategic deterrence core function.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>The program includes necessary nuclear surety and certification activities and vulnerability assessments.</p> <p>PE 0101316F Worldwide Joint Strategic Communications - P-40A PE 0101316F WORLDWIDE JOINT STRATEGIC COMMUNICATIONS</p> <p>Emergency Action Messages (EAMs) are highly structured, authenticated messages primarily used in the command and control of nuclear forces. They are disseminated over numerous survivable and non-survivable communication systems including terrestrial and space systems. Programmed funds procure system components, spares, software, and necessary support services for systems such as the Strategic Automated Command and Control System (SACCS), Phoenix Air-to-Ground Communication Network (PAGCN), and Defense Injection Reception EAM C2 Terminals (DIRECT).</p> <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 intercontinental ballistic missile (ICBM) re-targeting data to the USAF's two legs (ICBM and bomber fleets) of the nuclear triad; the reconnaissance, tanker, USAFE 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 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 Officer for Nuclear Command, Control and Communications (AFPEO NC3); program office transition from DISA to the Air Force completed on 1 Oct 2020. FY23 PB funds (24.607M) will be used to procure 2 new Ground Entry Points as 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.</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>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>a. 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> <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 &amp; Control (JADC2) - P-40A</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>The Advanced Battle Management System (ABMS) Battle Lab requires operationally representative "Digital Twins of fielded and fielding command and control systems IOT facilitate integration of emerging technology with existing capabilities and architectures. Without Digital Twins of existing and near-term capabilities, the Battle Lab is unable to facilitate risk-reduction and integration actions for emerging technology. This increases acquisition risk and timelines for new capabilities, because vendors and programs must undergo costly revisions during formal testing or after fielding. The alternative is to build tools that do not integrate, and therefore do not meet the Warfighter Required Capabilities (WRCs) outlined in the ABMS Campaign Plan WRC #1: Data Sharing and WRC #5: Integrated Planning. This effort is a continuation of Battle Lab efforts to deliver Battle Lab Core Attribute #4: Fielded C2 System Testbeds as defined in the Battle Lab CDP.</p> <p>These funds support the European Deterrence Initiative (EDI). The U-A C2 architecture requires a high-quality, robust, secure, and resilient RF voice communication platform that extends ground-to-air radio coverage in theater and enhances theater C2 capability. US tactical C2 nodes in theater are unable to maintain positive control of assigned air assets due to lack of ground-to-air radio coverage in theater. A highly accessible radio network, consisting of (UHF/VHF), HF, TACSAT, and link-16 with Over The Air Encryption capability emplaced on US controlled and Partner facilities will close RF communication gaps in the EUCOM theater. The capability must also be postured for network accreditation to enable quick implementation to enable agile/dispersed tactical command and control (i.e. Agile BMC2 Mission Employment). Increased ground-to-air coverage enhances the ability to distribute recognized air picture and improve overall theater indications and warning, safety of flight, and situational awareness across mission sets.</p> <p>PE 0304115F Multi Domain Command and Control (MDC2), also known as Joint All Domain Command and Control (JADC2) - P-40A</p> <p>The Advanced Battle Management System (ABMS) Battle Lab requires operationally representative "Digital Twins of fielded and fielding command and control systems IOT facilitate integration of emerging technology with existing capabilities and architectures. Without Digital Twins of existing and near-term capabilities, the Battle Lab is unable to facilitate risk-reduction and integration actions for emerging technology. This increases acquisition risk and timelines for new capabilities, because vendors and programs must undergo costly revisions during formal testing or after fielding. The alternative is to build tools that do not integrate, and therefore do not meet the Warfighter Required Capabilities (WRCs) outlined in the ABMS Campaign Plan WRC #1: Data Sharing and WRC #5: Integrated Planning. This effort is a continuation of Battle Lab efforts to deliver Battle Lab Core Attribute #4: Fielded C2 System Testbeds as defined in the Battle Lab CDP.</p> <p>These funds support the European Deterrence Initiative (EDI). The U-A C2 architecture requires a high-quality, robust, secure, and resilient RF voice communication platform that extends ground-to-air radio coverage in theater and enhances theater C2 capability. US tactical C2 nodes in theater are unable to maintain positive control of assigned air assets due to lack of ground-to-air radio coverage in theater. A highly accessible radio network, consisting of (UHF/VHF), HF, TACSAT, and link-16 with Over The Air Encryption capability emplaced on US controlled and Partner facilities will close RF communication gaps in the EUCOM theater. The capability must also be postured for network accreditation to enable quick implementation to enable agile/dispersed tactical command and control (i.e. Agile BMC2 Mission Employment). Increased ground-to-air coverage enhances the ability to distribute recognized air picture and improve overall theater indications and warning, safety of flight, and situational awareness across mission sets.</p> <p>Development funding for this exhibit contained in PE 64003F.</p> <p>PE 0303248F, All Domain Common Platform - P-40A</p> <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>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Funding for this exhibit is contained in PE 0303248F.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): **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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	B-2 Squadrons	P-5a, P-21	A		- / -	1 / 0.532	1 / 0.536	1 / 0.517	- / -	1 / 0.517
P-5	Long Range Standoff (LRSO)	P-5a, P-21	B		- / -	- / 0.000	- / 0.000	1 / 20.442	- / -	1 / 20.442
P-5	Worldwide Joint Strategic Communications	P-5a, P-21	A		- / -	- / 24.520	- / 29.751	- / 31.993	- / -	- / 31.993
P-5	Nuclear Planning and Execution System (NPES)	P-5a, P-21	A		- / -	1 / 1.356	- / 0.000	- / 0.000	- / -	- / 0.000
P-5	All Domain Common Platform	P-5a	A		- / 0.000	- / 0.000	1 / 3.541	- / 0.000	- / -	- / 0.000
P-5	Joint All Domain Command & Control (JADC2)	P-5a, P-21	A		- / -	- / 1.232	- / 4.334	- / 40.399	- / -	- / 40.399
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 27.640</b>	<b>- / 38.162</b>	<b>- / 93.351</b>	<b>- / -</b>	<b>- / 93.351</b>

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

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

**Justification:**  
 This program, PE 0101238F P-5, is a new start.

PE 0101238F Long Range Standoff (LRSO) P-5, is a new start. FY23 procures backbone infrastructure hardware and associated software. Funds procure backbone infrastructure hardware and associated software. 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. Detailed information is classified. Additional information can be provided at higher classification levels. For further information, please contact SAF/AQPN.

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

PAGCN:  
 - FY23 PB funds (24.607M) will be used to procure 2 new Ground Entry Points as 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.

DIRECT:  
 - FY21 PB funds (1.946M) will be used for DIRECT/NC3 architecture upgrades & support  
 - FY22 PB funds (1.507M) will be used for DIRECT/NC3 architecture upgrades & support  
 - FY23 PB funds (.255M) will be used for DIRECT/NC3 architecture upgrades & support; 7.131M was incorrectly identified in 3080 (OPAF) - the Air Force will be working to adjust this funding to 3400 (O&M)

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>PE 0208059F Service Support to Other Core Missions - CYBERCOM Activities - P-40A  PE 0208059F US Cyber Command (USCYBERCOM)ACTIVITIES:</p> <p>FY18 supports fielding Cyberspace Situational Awareness EOA Phase I to three combatant commands (USSOUTHCOM, USSOCOM, PACOM).</p> <p>PE 0301112F Nuclear Planning and Execution System (NPES) - P-40A  NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is a National C2 automated information system (AIS) that supports all phases of nuclear conflict. The requirement includes NPES development, test, communication systems and operational server integration with fixed command centers, distributed sites, and mobile platforms. NPES is a joint program, with the Air Force assigned lead service responsibilities. All NPES funding covers the development, test, and operational server suites for fixed command centers, distributive sites and mobile platforms. Funding for this effort is in program element 0301112F.</p> <p>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"> <li>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.</li> <li>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</li> <li>3. Network/Communications Hardware Updates - FY20 starts equipment updates for network administration and control devices for the USSTRATCOM enterprise networks and Internet control</li> <li>4. Client Infrastructure Hardware Updates - Lifecycle technical refresh will begin on end user computing input/output devices and peripherals.</li> <li>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</li> <li>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.</li> </ol>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Specific items procured during execution may change based on commercial availability and critical equipment needed to support current mission requirements.

PE 0304115F Joint All Domain Command & Control (JADC2) - P-40A

FY23 Procurement funds will be used to build up the USAF's Distributed ABMS/JADC2 Battle Lab comm-IT architecture to support ABMS experimentation and integration activities required to evaluate advanced technologies such as DARPA's Air Space Total Awareness for Rapid Tactical Execution (ASTARTE), AFRL's Rapid Deployable Air Operations Center (RDAOC), ACC's Global Command and Control Network (GC2N) and other leading C2 capabilities that being developed for possible inclusion in the AOC Block 20 or new Battle Management Command and Control (BMC2) ecosystem. Additionally, funds will be used on Capital Equipment Replacement (CER) of established comm-IT equipment which are reaching End of Life/End of Support (EoL/EoS) in the FY23 time frame.

FY23 Procurement funds support the European Deterrence Initiative (EDI) by providing 10 sites across the EUCOM theater with the ability to begin reducing both voice and data gaps that exist. This is the first part of a phased solution that will deliver Capability 11a - Interoperable CCMD Voice Communications and Capability 11c - Interoperable Ground Air Transmit Receive (GATR) Network from the USAF-AFAFRICA JADC2 CONEMP further enhance USEUCOMS JADC2 capabilities while synchronizing with the DOD's JADC2 Strategy Implementation Line of Effort 3 Objective 3.3.4 Modernize Network and Transport Capabilities.

PE 0303248F, All Domain Common Platform (ADCP) - P-40A

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.

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.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> B-2 Squadrons

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	-	1	1	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.532	0.536	0.517	-	0.517
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.532	0.536	0.517	-	0.517
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.532</b>	<b>0.536</b>	<b>0.517</b>	-	<b>0.517</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	0.000	0.000	0.000	0.000	0.000
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	0.532	0.536	0.517	-	0.517

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Software - B-2 Squadrons Cost																		
Recurring Cost																		
0101127F <sup>(†)</sup>	-	-	-	0.532	1	0.532	0.536	1	0.536	0.517	1	0.517	-	-	-	0.517	1	0.517
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.532	-	-	0.536	-	-	0.517	-	-	-	-	-	0.517
<i>Subtotal: Software - B-2 Squadrons Cost</i>	-	-	-	-	-	0.532	-	-	0.536	-	-	0.517	-	-	-	-	-	0.517
<b>Gross/Weapon System Cost</b>	-	-	-	0.532	1	0.532	0.536	1	0.536	0.517	1	0.517	-	-	-	0.517	1	0.517

**Remarks:**

Annual budgets below \$600K are normally below the threshold of requiring a P-5A, but the SAC has specifically requested P-5, P5A and P-21 be submitted for all BP83 & BP84 programs that have been using P-40As.

Gross/Weapon System Cost Unit Cost and Unit Total amounts not listed in Resource Summary Unit Cost/Total Cost section.

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> B-2 Squadrons
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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
0101127F <sup>(†)</sup>		2021	Northrop Grumman / Palmdale, CA	PO	AFLCMC Tinker AFB	Aug 2021	Mar 2022	1	0.532	Y		
0101127F <sup>(†)</sup>		2022	Northrop Grumman / Palmdale, CA	PO	AFLCMC Tinker AFB	Dec 2021	Jun 2022	1	0.536	Y		Nov 2021
0101127F <sup>(†)</sup>		2023	Northrop Grumman / Palmdale, CA	TBD	AFLCMC Tinker AFB	Dec 2022	May 2023	1	0.517	Y		

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

**Remarks:**

Date of First Delivery for FY21 and FY22 is unknown at this time.

Also, future FYs (2023 - 2027) Contractor, Location, Contract Method, Award Date, Date of First Delivery, Soecs Available Now, Date Revision Available, and RFP Issue Date are unknown

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F / 03 / 3

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

**Item Number / Title [DODIC]:**  
B-2 Squadrons

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021												Fiscal Year 2022												BALANCE	
OC	MFR	#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP
0101127F																																
	1	2021	AF		1	0	1										A	-	-	-	-	-	-	-	-	-	1					
	1	2022	AF		1	0	1																A	-	-	-	-	-	-	1		
	1	2023	AF		1	0	1																						1			
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> B-2 Squadrons
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
0101127F																															
	1	2021	AF	1	1	0																									0
	1	2022	AF	1	1	0																									0
	1	2023	AF	1	0	1				A	-	-	-	-	-	1													0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> B-2 Squadrons
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Northrop Grumman - Palmdale, CA			20	3	3	5	8	0	0	0	0

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> Long Range Standoff (LRSO)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	1	-	1
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	0.000	20.442	-	20.442
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	0.000	20.442	-	20.442
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>0.000</b>	<b>0.000</b>	<b>20.442</b>	-	<b>20.442</b>

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	20.442	-	20.442

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Hardware - Long Range Standoff (LRSO) Cost																		
Non Recurring Cost																		
hardware <sup>(t)</sup>	-	-	-	-	-	0.000	-	-	0.000	20.442	1	20.442	-	-	-	20.442	1	20.442
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	20.442	-	-	-	-	-	20.442
<i>Subtotal: Hardware - Long Range Standoff (LRSO) Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	20.442	-	-	-	-	-	20.442
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	20.442	1	20.442	-	-	-	20.442	1	20.442

**Remarks:**

PE 0101238F Long Range Standoff (LRSO) - 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.

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> Long Range Standoff (LRSO)
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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
hardware <sup>(†)</sup>		2023	Various / Various	Various	Hanscom AFB	Jan 2023	Jan 2023	1	20.442	N	Dec 2022	

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

**Remarks:**

First Delivery is TBD.  
Detailed information is classified and will be provided on a need-to-know basis. For further information, please contact SAF/AQPN.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> Long Range Standoff (LRSO)
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023											Fiscal Year 2024											BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023											Calendar Year 2024														
							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	
hardware																													0			
	1	2023	AF		1	0	1	A1																								
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> Long Range Standoff (LRSO)
---	--	---

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	0	4	0	4	0	0	0	0

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> Worldwide Joint Strategic Communications

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	24.520	29.751	31.993	-	31.993
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	24.520	29.751	31.993	-	31.993
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>24.520</b>	<b>29.751</b>	<b>31.993</b>	-	<b>31.993</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Worldwide Joint Strategic Communications Cost																		
Non Recurring Cost																		
Defense Injection/ Reception Emergency Action Message Command and Control Terminal (DIRECT) <sup>(†)</sup>	-	-	-	1.946	1	1.946	1.507	1	1.507	7.386	1	7.386	-	-	-	7.386	1	7.386
Phoenix Air-to-Ground Communications Network (PAGCN) <sup>(†)</sup>	-	-	-	5.644	4	22.574	14.122	2	28.244	12.303	2	24.607	-	-	-	12.304	2	24.607
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	24.520	-	-	29.751	-	-	31.993	-	-	-	-	-	31.993
<i>Subtotal: Hardware - Worldwide Joint Strategic Communications Cost</i>	-	-	-	-	-	24.520	-	-	29.751	-	-	31.993	-	-	-	-	-	31.993
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>24.520</b>	-	-	<b>29.751</b>	-	-	<b>31.993</b>	-	-	-	-	-	<b>31.993</b>

<sup>(†)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control				<b>Item Number / Title [DODIC]:</b> Worldwide Joint Strategic Communications				

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
Defense Injection/Reception Emergency Action Message Command and Control Terminal (DIRECT) <sup>(†)</sup>		2021	General Dynamics / Dedham, Ma	SS / CPFF	AFLCMC/WN - Agile Combat Systems	Jun 2021	Oct 2021	1	1.946	Y		
Defense Injection/Reception Emergency Action Message Command and Control Terminal (DIRECT) <sup>(†)</sup>		2022	General Dynamics / Dedham, Ma	SS / CPFF	AFLCMC/WN - Agile Combat Systems	Jun 2022	Oct 2022	1	1.507	Y		
Defense Injection/Reception Emergency Action Message Command and Control Terminal (DIRECT) <sup>(†)</sup>		2023	General Dynamics / Dedham, Ma	SS / CPFF	AFLCMC/WN - Agile Combat Systems	Jun 2023	Oct 2023	1	7.386	Y		
Phoenix Air-to-Ground Communications Network (PAGCN) <sup>(†)</sup>		2021	L3harris / Salt Lake City, UT	SS / CPFF	N/A	Oct 2020	Oct 2021	4	5.644	Y		
Phoenix Air-to-Ground Communications Network (PAGCN) <sup>(†)</sup>		2022	L3harris / Salt Lake City, UT	SS / CPFF	AFMC	Apr 2022	Oct 2023	2	14.122	Y		
Phoenix Air-to-Ground Communications Network (PAGCN) <sup>(†)</sup>		2023	L3harris / Salt Lake City, UT	SS / CPFF	AFMC	Dec 2022	Oct 2024	2	12.303	Y		

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





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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control										<b>Item Number / Title [DODIC]:</b> Worldwide Joint Strategic Communications									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Defense Injection/Reception Emergency Action Message Command and Control Terminal (DIRECT)																																	
	1	2021	AF	1	1	0																							0				
	1	2022	AF	1	0	1	1																						0				
	1	2023	AF	1	0	1																							0				
Phoenix Air-to-Ground Communications Network (PAGCN)																																	
	2	2021	AF	4	4	0																							0				
	2	2022	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	2	2023	AF	2	0	2																							2				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control										<b>Item Number / Title [DODIC]:</b> Worldwide Joint Strategic Communications									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025														Fiscal Year 2026														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026														
							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					
Defense Injection/Reception Emergency Action Message Command and Control Terminal (DIRECT)																																			
	1	2021	AF	1	1	0																									0				
	1	2022	AF	1	1	0																									0				
	1	2023	AF	1	1	0																									0				
Phoenix Air-to-Ground Communications Network (PAGCN)																																			
	2	2021	AF	4	4	0																									0				
	2	2022	AF	2	2	0																									0				
	2	2023	AF	2	0	2																									0				

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
		<b>Item Number / Title [DODIC]:</b> Worldwide Joint Strategic Communications

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	General Dynamics - Dedham, Ma	1	1	1	0	0	0	0	0	1	9	4	13
2	L3harris - Salt Lake City, UT	2	2	2	0	0	0	0	0	1	3	22	25

**Remarks:**  
 FY23 PAGCN Procurement funding will be executed on existing IDIQ contract immediately upon receipt of funds. Site is operational 18-24 months after contract award, pending specific site requirements.

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> Nuclear Planning and Execution System (NPES)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	1	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	1.356	0.000	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	1.356	0.000	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>1.356</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	1.356	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Ancillary Equipment - ECGS Equipment Cost</b>																		
Non Recurring Cost																		
63730 <sup>(†)</sup>	-	-	-	0.375	1	0.375	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.375	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Ancillary Equipment - ECGS Equipment Cost</i>	-	-	-	-	-	<b>0.375</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Support - PMA / Omnibus Cost</b>																		
50660 <sup>(†)</sup>	-	-	-	0.214	1	0.214	-	-	-	-	-	-	-	-	-	-	-	-
55900 <sup>(†)</sup>	-	-	-	0.767	1	0.767	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - PMA / Omnibus Cost</i>	-	-	-	-	-	<b>0.981</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	<b>1.356</b>	<b>1</b>	<b>1.356</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>

<sup>(†)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control				<b>Item Number / Title [DODIC]:</b> Nuclear Planning and Execution System (NPES)				

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
63730 <sup>(†)</sup>		2021	Perspecta / Omaha, NE	TBD	ACC	Dec 2020	May 2021	1	0.375	Y		
50660 <sup>(†)</sup>		2021	APOGEE / Omaha, NE	Reqn	AFLCMC Hanscom AFB	Feb 2021	Feb 2021	1	0.214	Y		Feb 2020
55900 <sup>(†)</sup>		2021	Omnibus / TBD	TBD	N/A	Apr 2021	Apr 2021	1	0.767	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force			<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	
<b>Item Number / Title [DODIC]:</b> Nuclear Planning and Execution System (NPES)			

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021										Fiscal Year 2022										BALANCE				
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021										Calendar Year 2022													
							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
63730																												0		
1	2021	AF		1	0	1			A	-	-	-	-	-	-	1													0	
50660																												0		
2	2021	AF		1	0	1						A1																	0	
55900																												0		
3	2021	AF		1	0	1							A1																0	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	B	A	A	U	U	A	S
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
		<b>Item Number / Title [DODIC]:</b> Nuclear Planning and Execution System (NPES)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Perspecta - Omaha, NE	1	1	1	1	3	5	8	0	0	0	0
2	APOGEE - Omaha, NE	1	1	1	1	5	0	5	0	0	0	0
3	Omnibus - TBD	1	1	1	1	7	0	7	0	0	0	0

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> All Domain Common Platform

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	1	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.000	3.541	0.000	-	0.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	0.000	3.541	0.000	-	0.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>0.000</b>	<b>0.000</b>	<b>3.541</b>	<b>0.000</b>	<b>-</b>	<b>0.000</b>

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	3.541	-	-	-

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
<b>Hardware - All Domain Common Platform Cost</b>																		
<b>Non Recurring Cost</b>																		
Tech Refresh Materials <sup>(t)</sup>	-	-	0.000	-	-	0.000	3.541	1	3.541	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	3.541	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - All Domain Common Platform Cost</i>	-	-	0.000	-	-	0.000	-	-	3.541	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	3.541	1	3.541	-	-	0.000	-	-	-	-	-	0.000

**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.

<sup>(t)</sup> indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> All Domain Common Platform
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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
Tech Refresh Materials		2022	Various / Various	Various	Hanscom AFB	Jan 2022	Jan 2022	1	3.541	Y		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Item Number / Title [DODIC]:</b> Joint All Domain Command & Control (JADC2)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	1.232	4.334	40.399	-	40.399
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.232	4.334	40.399	-	40.399
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>1.232</b>	<b>4.334</b>	<b>40.399</b>	-	<b>40.399</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Joint All Domain Command & Control (JADC2) (EDI) Cost																		
Non Recurring Cost																		
Ground to Air Transmit Receive (GATR) <sup>(†)</sup>	-	-	-	-	-	0.000	-	-	0.000	3.443	10	34.427	-	-	-	3.443	10	34.427
Subtotal: Non Recurring Cost	-	-	-	-	-	0.000	-	-	0.000	-	-	34.427	-	-	-	-	-	34.427
Subtotal: Hardware - Joint All Domain Command & Control (JADC2) (EDI) Cost	-	-	-	-	-	0.000	-	-	0.000	-	-	34.427	-	-	-	-	-	34.427
Hardware - Joint All Domain Command & Control (JADC2) - ShadowOC Cost																		
Non Recurring Cost																		
ShOC-N <sup>(†)</sup>	-	-	-	1.232	1	1.232	4.334	1	4.334	1.194	5	5.972	-	-	-	1.194	5	5.972
Subtotal: Non Recurring Cost	-	-	-	-	-	1.232	-	-	4.334	-	-	5.972	-	-	-	-	-	5.972
Subtotal: Hardware - Joint All Domain Command & Control (JADC2) - ShadowOC Cost	-	-	-	-	-	1.232	-	-	4.334	-	-	5.972	-	-	-	-	-	5.972
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>1.232</b>	-	-	<b>4.334</b>	-	-	<b>40.399</b>	-	-	-	-	-	<b>40.399</b>

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control				<b>Item Number / Title [DODIC]:</b> Joint All Domain Command & Control (JADC2)					

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
Ground to Air Transmit Receive (GATR) <sup>(†)</sup>		2023	Booz Allen Hamilton / McLean, VA	MIPR	USAFE	Apr 2023	Nov 2023	10	3.443	Y		Jan 2023
ShOC-N <sup>(†)</sup>		2021	Raytheon / Waltham, MA	MIPR	AFLCMC Hanscom AFB	Dec 2020	Jun 2021	1	1.232	Y		Oct 2020
ShOC-N <sup>(†)</sup>		2022	Raytheon / Waltham, MA	MIPR	AFLCMC Hanscom AFB	Dec 2021	Jun 2022	1	4.334	Y		Oct 2021
ShOC-N <sup>(†)</sup>		2023	TBD / TBD	MIPR	AFLCMC Hanscom AFB	Jun 2023	Dec 2023	5	1.194	Y		Mar 2023

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control										<b>Item Number / Title [DODIC]:</b> Joint All Domain Command & Control (JADC2)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022														
							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				
Ground to Air Transmit Receive (GATR)																																		
1		2023	AF	10	0	10																									10			
ShOC-N																																		
2		2021	AF	1	0	1			A -	-	-	-	-	-	-	1															0			
2		2022	AF	1	0	1																					A -	-	-	-	-	-	1	0
3		2023	AF	5	0	5																										5		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control										<b>Item Number / Title [DODIC]:</b> Joint All Domain Command & Control (JADC2)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Ground to Air Transmit Receive (GATR)																															
1	2023		AF	10	0	10																							0		
ShOC-N																															
2	2021		AF	1	1	0																							0		
2	2022		AF	1	1	0																							0		
3	2023		AF	5	0	5																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
		<b>Item Number / Title [DODIC]:</b> Joint All Domain Command & Control (JADC2)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Booz Allen Hamilton - McLean, VA	1	6	10	7	7	7	14	0	0	0	0
2	Raytheon - Waltham, MA				0	0	0	0	0	0	0	0
3	TBD - TBD			10	0	0	0	0	0	9	6	15

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

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	30.512	8.199	8.258	6.118	-	6.118	8.198	8.868	9.116	9.296	-	88.565
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	30.512	8.199	8.258	6.118	-	6.118	8.198	8.868	9.116	9.296	-	88.565
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>30.512</b>	<b>8.199</b>	<b>8.258</b>	<b>6.118</b>	-	<b>6.118</b>	<b>8.198</b>	<b>8.868</b>	<b>9.116</b>	<b>9.296</b>	-	<b>88.565</b>

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

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

**Description:**

Cheyenne Mountain Complex (CMC) systems provide real-time ballistic missile warning, air defense, force management, battle management and command, control and communications for the North American Air Defense (NORAD) missions.

PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)

Modification for the COMBATANT COMMANDER (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.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	006 / MCCC Upgrade Block 04 (Reliability & Maintainability)		B		- / 0.000	- / 7.999	- / 0.200	- / 0.000	- / -	- / 0.000
P-3a	007 / Mobile Consolidated Command Center Upgrade Block 05 (Reliability & Maintainability)		B		- / -	- / -	- / 8.058	- / 6.118	- / 0.000	- / 6.118
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 30.512</b>	<b>- / 8.199</b>	<b>- / 8.258</b>	<b>- / 6.118</b>	<b>- / -</b>	<b>- / 6.118</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	006 / MCCC Upgrade Block 04 (Reliability & Maintainability)		B		- / 0.000	- / 0.000	- / -	- / -	- / -	- / 8.199
P-3a	007 / Mobile Consolidated Command Center Upgrade Block 05 (Reliability & Maintainability)		B		- / 8.198	- / 0.000	- / 0.000	- / -	- / -	- / 22.374
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 8.198</b>	<b>- / 8.868</b>	<b>- / 9.116</b>	<b>- / 9.296</b>	<b>- / -</b>	<b>- / 88.565</b>

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

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

**Justification:**

PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)

The CDR'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. FY23 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. FY23 funding will also provide Program Management Administration (PMA) support for the MCCC Block 05 Program initiated in FY22. 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 2023 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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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833160 / Cheyenne Mountain Complex	<b>Modification Number / Title:</b> 006 / MCCC Upgrade Block 04

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	7.999	0.200	0.000	-	0.000	0.000	0.000	-	-	-	8.199
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	7.999	0.200	0.000	-	0.000	0.000	0.000	-	-	-	8.199
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>7.999</b>	<b>0.200</b>	<b>0.000</b>	-	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	-	-	<b>8.199</b>

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

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

**Description:**

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 system capabilities via mobile Information Technology and Communication Upgrade projects; ensuring the platform's ability to rapidly deploy, re-constitute and operate.

FY21 funding will execute MCCC Block 04 modifications which include but are not limited to: 1) Communication systems 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. FY21 will also fund Program Management Administration (PMA) support for the MCCC Block 03 Program initiated in FY20.

PMA costs fund acquisition support/strategy, 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 full funding policy.

Milestone/Development Status

Sustainment

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3				<b>P-1 Line Item Number / Title:</b> 833160 / Cheyenne Mountain Complex						<b>Modification Number / Title:</b> 006 / MCCC Upgrade Block 04			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> CheyenneMountainComplex				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1: MCCC (5)</i>													
B Kits													
Recurring													
MCCC:EQUIPMENT Group B (Active)	- / -	1 / 5.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.280	
<i>Subtotal: Recurring</i>	- / -	- / 5.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.280	
<i>Subtotal: MCCC (5)</i>	- / -	- / 5.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.280	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 5.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.280	
<b>Support (All Modification Items)</b>													
PMA - Contractor Services	- / -	- / 1.000	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	
<i>Subtotal: Support</i>	- / -	- / 1.000	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	
<b>Installation</b>													
<i>Modification Item 1 of 1: MCCC (5)</i>													
<i>Subtotal: Installation</i>	- / -	1 / 1.719	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.719	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>7.999</b>	<b>0.200</b>	<b>0.000</b>	<b>-</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>8.199</b>	

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**Exhibit P-3a, Individual Modification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833160 / Cheyenne Mountain Complex	<b>Modification Number / Title:</b> 006 / MCCC Upgrade Block 04
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

**Modification Item 1 of 1:** MCCC (5)

**Manufacturer Information**

Manufacturer Name: CACI National Security Solutions, Inc. Manufacturer Location: Albuquerque, NM

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 6

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021						
Delivery Dates	Jul 2021						

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2021	- / -	1 / 1.719	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.719
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 1.719	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.719

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1
Out	0	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833160 / Cheyenne Mountain Complex	<b>Modification Number / Title:</b> 007 / Mobile Consolidated Command Center Upgrade Block 05

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	8.058	6.118	0.000	6.118	8.198	0.000	0.000	-	-	22.374
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	8.058	6.118	0.000	6.118	8.198	0.000	0.000	-	-	22.374
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>8.058</b>	<b>6.118</b>	<b>0.000</b>	<b>6.118</b>	<b>8.198</b>	<b>0.000</b>	<b>0.000</b>	-	-	<b>22.374</b>

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

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

**Description:**

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 FY23, this line will continue to fund 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, FY23 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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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833160 / Cheyenne Mountain Complex	<b>Modification Number / Title:</b> 007 / Mobile Consolidated Command Center Upgrade Block 05

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Models of Systems Affected:</b> CheyenneMountainComplex	<b>Modification Type:</b> Reliability & Maintainability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> MCCC (6)												
B Kits												
Recurring												
MCCC:EQUIPMENT Group B (Active)	- / -	- / -	1 / 5.202	1 / 4.118	- / -	1 / 4.118	1 / 5.380	- / -	- / -	- / -	- / -	3 / 14.700
<i>Subtotal: Recurring</i>	- / -	- / -	- / 5.202	- / 4.118	- / -	- / 4.118	- / 5.380	- / -	- / -	- / -	- / -	- / 14.700
<i>Subtotal: MCCC (6)</i>	- / -	- / -	- / 5.202	- / 4.118	- / -	- / 4.118	- / 5.380	- / -	- / -	- / -	- / -	- / 14.700
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 5.202	- / 4.118	- / -	- / 4.118	- / 5.380	- / -	- / -	- / -	- / -	- / 14.700
<b>Support (All Modification Items)</b>												
PMA - Contractor Services	- / -	- / -	- / 1.228	- / 1.000	- / -	- / 1.000	- / 1.142	- / -	- / -	- / -	- / -	- / 3.370
<i>Subtotal: Support</i>	- / -	- / -	- / 1.228	- / 1.000	- / -	- / 1.000	- / 1.142	- / -	- / -	- / -	- / -	- / 3.370
<b>Installation</b>												
<i>Modification Item 1 of 1:</i> MCCC (6)												
	- / -	- / -	1 / 1.628	1 / 1.000	- / -	1 / 1.000	1 / 1.676	- / -	- / -	- / -	- / -	3 / 4.304
<i>Subtotal: Installation</i>	- / -	- / -	1 / 1.628	1 / 1.000	- / -	1 / 1.000	1 / 1.676	- / -	- / -	- / -	- / -	3 / 4.304
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	8.058	6.118	0.000	6.118	8.198	0.000	0.000	-	-	22.374

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833160 / Cheyenne Mountain Complex	<b>Modification Number / Title:</b> 007 / Mobile Consolidated Command Center Upgrade Block 05

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Jan 2022	Jan 2023	Jan 2024			
Delivery Dates		Sep 2022	Sep 2023	Sep 2024			

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	1 / 1.628	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.628
FY 2023	- / -	- / -	- / -	1 / 1.000	- / -	1 / 1.000	- / -	- / -	- / -	- / -	- / -	1 / 1.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.676	- / -	- / -	- / -	- / -	1 / 1.676
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 1.628	1 / 1.000	- / -	1 / 1.000	1 / 1.676	- / -	- / -	- / -	- / -	3 / 4.304

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3
Out	0	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	0	3

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs	<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208006F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	13.911	14.717	13.947	-	13.947	17.028	18.416	18.931	19.304	-	116.254
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	13.911	14.717	13.947	-	13.947	17.028	18.416	18.931	19.304	-	116.254
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>13.911</b>	<b>14.717</b>	<b>13.947</b>	-	<b>13.947</b>	<b>17.028</b>	<b>18.416</b>	<b>18.931</b>	<b>19.304</b>	-	<b>116.254</b>

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

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

**Description:**

The 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. As the Mission Planning enterprise modernizes into an open mission systems architecture, the program will continue to provide end items that will support the enterprise infrastructure, software development and deployment for a successful modernization. The program will continue to evolve along-side mission planning modernization efforts to provide and support next generation Mission Planning Systems.

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208006F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 (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>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 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 833170 / Mission Planning Systems  
**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:** 0208006F

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Mission Planning Systems	P-5a, P-21	A		- / -	- / 13.911	- / 14.717	- / 13.947	- / -	- / 13.947
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 13.911</b>	<b>- / 14.717</b>	<b>- / 13.947</b>	<b>- / -</b>	<b>- / 13.947</b>

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

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

**Justification:**  
 FY23 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:** FY23 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, and other services 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):** FY23 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:** FY23 funding provides program office, engineering, and other contractor support for the Mission Planning Systems (MPS) and Joint Precision Airdrop Systems (JPADS) procurement program.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems	<b>Item Number / Title [DODIC]:</b> Mission Planning Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	13.911	14.717	13.947	-	13.947
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	13.911	14.717	13.947	-	13.947
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>13.911</b>	<b>14.717</b>	<b>13.947</b>	-	<b>13.947</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Mission Planning Systems Cost</b>																		
Recurring Cost																		
a. MPS Hardware	-	-	-	-	-	8.700	-	-	9.668	-	-	9.160	-	-	-	-	-	9.160
2. PADS Dropsondes <sup>(†)</sup>	-	-	-	-	-	-	0.080	35	2.800	0.080	32	2.560	-	-	-	0.080	32	2.560
a. PADS Support Services & Spares	-	-	-	-	-	1.598	-	-	0.969	-	-	0.999	-	-	-	-	-	0.999
b. PADS Systems Engineering & Logistical Support	-	-	-	-	-	1.793	-	-	1.280	-	-	1.228	-	-	-	-	-	1.228
d. PADS Delivery Systems <sup>(†)</sup>	-	-	-	0.013	140	1.820	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>13.911</i>	-	-	<i>14.717</i>	-	-	<i>13.947</i>	-	-	-	-	-	<i>13.947</i>
<i>Subtotal: Hardware - Mission     Planning Systems Cost</i>	-	-	-	-	-	<i>13.911</i>	-	-	<i>14.717</i>	-	-	<i>13.947</i>	-	-	-	-	-	<i>13.947</i>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>13.911</b>	-	-	<b>14.717</b>	-	-	<b>13.947</b>	-	-	-	-	-	<b>13.947</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems	<b>Item Number / Title [DODIC]:</b> Mission Planning Systems
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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
2. PADS Dropsondes <sup>(†)</sup>		2022	QinetiQ / West Virginia	C / TBD	AFLCMC Hanscom AFB	Jun 2022	Jun 2023	35	0.080	Y		
2. PADS Dropsondes <sup>(†)</sup>		2023	QinetiQ / West Virginia	C / TBD	AFLCMC Hanscom AFB	Dec 2022	Sep 2023	32	0.080	Y		
d. PADS Delivery Systems <sup>(†)</sup>		2021	Natick Labs / Massachusetts	C / TBD	AFLCMC Hanscom AFB	Oct 2021	Dec 2021	140	0.013	Y		

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems	<b>Item Number / Title [DODIC]:</b> Mission Planning Systems
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2022														Fiscal Year 2023														B A L A N C E	
O C 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						
2. PADS Dropsondes																																				
	1	2022	AF	35	0	35											A	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	15	0	
	1	2023	AF	32	0	32																													20	12
d. PADS Delivery Systems																																				
	2	2021	AF	140	0	140	A	-	-	16	6	8	-	-	40	-	-	-	20	20	20	10													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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems	<b>Item Number / Title [DODIC]:</b> Mission Planning Systems
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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					
2. PADS Dropsondes																																			
	1	2022	AF		35	35	0																							0					
	1	2023	AF		32	20	12	-	-	-	12																			0					
d. PADS Delivery Systems																																			
	2	2021	AF		140	140	0																							0					
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems	<b>Item Number / Title [DODIC]:</b> Mission Planning Systems
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	QinetiQ - West Virginia	32	32	32	35	3	9	12	0	0	0	0
2	Natick Labs - Massachusetts	140	140	140	90	13	2	15	0	0	0	0

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs	<b>P-1 Line Item Number / Title:</b> 833440 / Drug Interdiction Spt
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.950	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	2.950
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.950	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	2.950
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.950</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>2.950</b>

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

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

**Description:**

Funding supports drug interdiction and counter-drug activities.

Funding for this exhibit contained in PE 0201110F.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** 833440 / Drug Interdiction Spt

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

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Drug Interdiction Spt		A		- / -	- / 2.950	- / 0.000	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 2.950	- / 0.000	- / 0.000	- / -	- / 0.000

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

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

**Justification:**  
No FY23 funds requested.



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833440 / Drug Interdiction Spt	<b>Item Number / Title [DODIC]:</b> Drug Interdiction Spt

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.950	0.000	0.000	-	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.950	0.000	0.000	-	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.950</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Drug Interdiction Spt Cost																		
Recurring Cost																		
Drug Interdiction Spt	-	-	-	-	-	2.950	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.950	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Drug Interdiction Spt Cost</i>	-	-	-	-	-	2.950	-	-	0.000	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	2.950	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs	<b>P-1 Line Item Number / Title:</b> 833560 / Integrated Strat Plan & Analy Network (ISPAN)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	4.404	4.845	0.000	-	0.000	0.000	0.000	0.000	0.000	-	9.249
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	4.404	4.845	0.000	-	0.000	0.000	0.000	0.000	0.000	-	9.249
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>4.404</b>	<b>4.845</b>	<b>0.000</b>	-	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>9.249</b>

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

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

**Description:**

INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN): The mission of USSTRATCOM is to conduct global operations in coordination with other Combatant Commands, Services, and appropriate U.S. Government agencies to deter and detect strategic attacks against the U.S. and its allies. It provides full-spectrum global strike, and coordinated space, missile defense, and information operations capabilities to meet both deterrent and decisive national security objectives. USSTRATCOM will also provide operational space support, integrated missile defense, global command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. ISPAN enables USSTRATCOM to carry out these missions. It is one of DoD's most complex classified computer systems and the only national force level planning system.

ISPAN enables an effects-based approach to planning and operations; cross domain information sharing; and serves multiple planning environments. It develops, verifies, and produces Operational Plan (OPLAN) 8010. It also supports the USSTRATCOM family of plans construct and current Concept of Operations. The system performs tasks ranging from creating and running Courses of Action (COAs) on threat scenarios to providing data for developing bomber aircraft crew strike mission data in digital and hard copy formats. It includes automated data processing equipment (ADPE), multiple networks, unique processes and procedures, software, training, associated deployable and distributed data processing nodes, a test/development environment, and subsidiary systems. The system will migrate to the new USSTRATCOM Command and Control Facility.

The ISPAN program is comprised of two independent but complementary planning systems; the Mission Planning and Analysis System (MPAS) and the Global Adaptive Planning Collaborative Information Environment (GAP-CIE). MPAS is an automated information system to support Global Strike nuclear and conventional target development and 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.

No FY 2023 funding requested; FY 2023 project efforts are detailed in PE 0608158F BA-08, Strategic Mission Planning and Execution System (SMPES).

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833560 / Integrated Strat Plan & Analy Network (ISPAN)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Funding for this exhibit is contained in Program Element 0101313F.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Integrated Strat Plan & Analy Network (ISPAN)	P-5a, P-21	A		- / -	- / 4.404	- / 4.845	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 4.404</b>	<b>- / 4.845</b>	<b>- / 0.000</b>	<b>- / -</b>	<b>- / 0.000</b>

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

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

**Justification:**  
No Budget Year FY23 funds requested.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833560 / Integrated Strat Plan & Analy Network (ISPAN)	<b>Item Number / Title [DODIC]:</b> Integrated Strat Plan & Analy Network (ISPAN)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	4.404	4.845	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	4.404	4.845	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>4.404</b>	<b>4.845</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Integrated Strat Plan &amp; Analy Network (ISPAN) Cost</b>																		
Recurring Cost																		
C2F ESS / PRISM - Complete System <sup>(t)</sup>	-	-	-	3.894	1	3.894	4.275	1	4.275	-	-	0.000	-	-	-	-	-	0.000
GAP-CIE (Secret, JWICS) - Complete System <sup>(t)</sup>	-	-	-	0.410	1	0.410	0.470	1	0.470	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.304	-	-	4.745	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - Integrated Strat Plan &amp; Analy Network (ISPAN) Cost</i>	-	-	-	-	-	4.304	-	-	4.745	-	-	0.000	-	-	-	-	-	0.000
<b>Support - Integrated Strat Plan &amp; Analy Network (ISPAN) Cost</b>																		
Program Support Cost (Government Cost) <sup>(t)</sup>	-	-	-	0.100	1	0.100	0.100	1	0.100	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Integrated Strat Plan &amp; Analy Network (ISPAN) Cost</i>	-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	4.404	-	-	4.845	-	-	0.000	-	-	-	-	-	0.000

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833560 / Integrated Strat Plan & Analy Network (ISPAN)				<b>Item Number / Title [DODIC]:</b> Integrated Strat Plan & Analy Network (ISPAN)				

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
C2F ESS / PRISM - Complete System <sup>(†)</sup>		2021	ITCC / Offutt AFB	TBD	AFLCMC/HB - Battle Management	May 2021	Jun 2021	1	3.894	Y		
C2F ESS / PRISM - Complete System <sup>(†)</sup>		2022	ITCC / Offutt AFB	TBD	AFLCMC/HB - Battle Management	May 2022	Jun 2022	1	4.275	Y		
GAP-CIE (Secret, JWICS) - Complete System <sup>(†)</sup>		2021	ITCC / Offutt AFB	TBD	AFLCMC/HB - Battle Management	May 2021	Jun 2021	1	0.410	Y		
GAP-CIE (Secret, JWICS) - Complete System <sup>(†)</sup>		2022	ITCC / Offutt AFB	TBD	AFLCMC/HB - Battle Management	May 2022	Jun 2022	1	0.470	Y		
Program Support Cost (Government Cost)		2021	N/A / Offutt AFB	TBD	AFLCMC/HB - Battle Management	May 2021	Jun 2021	1	0.100	Y		
Program Support Cost (Government Cost)		2022	N/A / Offutt AFB	TBD	AFLCMC/HB - Battle Management	May 2022	Jun 2022	1	0.100	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833560 / Integrated Strat Plan & Analy Network (ISPAN)										<b>Item Number / Title [DODIC]:</b> Integrated Strat Plan & Analy Network (ISPAN)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
C2F ESS / PRISM - Complete System																															
	1	2021	AF	1	0	1																							0		
	1	2022	AF	1	0	1																							0		
GAP-CIE (Secret, JWICS) - Complete System																															
	2	2021	AF	1	0	1																							0		
	2	2022	AF	1	0	1																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833560 / Integrated Strat Plan & Analy Network (ISPAN)
		<b>Item Number / Title [DODIC]:</b> Integrated Strat Plan & Analy Network (ISPAN)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	ITCC - Offutt AFB	1	1	1	1	8	1	9	0	0	0	0
2	ITCC - Offutt AFB	1	1	1	1	8	1	9	0	0	0	0

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

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): **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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	35.964	74.447	101.517	-	101.517	121.889	107.329	115.191	118.359	-	674.696
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	35.964	74.447	101.517	-	101.517	121.889	107.329	115.191	118.359	-	674.696
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>35.964</b>	<b>74.447</b>	<b>101.517</b>	-	<b>101.517</b>	<b>121.889</b>	<b>107.329</b>	<b>115.191</b>	<b>118.359</b>	-	<b>674.696</b>

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

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

**Description:**

FY23 funding totals include \$4.442M requested for Enduring Requirements for PE 0208288F Intel Data Applications

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 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 and 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.

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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, such as Concurrent Multi-Netting (CMN), Concurrent Contention Receive (CCR) and Enhanced Throughput (ET), will be satisfied with procurement of the Link 16 Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) radios and other communication capability and networking equipment.</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 as well as initial installation costs.</p> <p>PE 0207605F Wargaming and Simulation Centers - P-40A Enables the Warrior Preparation Center (WPC) to conduct and support 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 analysis suites, hardware, and software in direct support of the Wargaming Informational Environment (WIE), which is distributed across the National Capitol Region, United States Air Force, and Combatant Commands worldwide. The WIE is employed in wargames to inform Department of the Air Force (DAF) budgeting and programming choices needed to fully implement and align with the National Defense Strategy. 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> <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 (US) 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.</p> <p>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 Planning Programming Budgeting and Execution (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 FY2023 funding procures hardware and software to support the rationalization, consolidation and modernization of a common mission network capability that supports operations with the MPE. Funding for this exhibit contained in PE 0305601F.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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 Link (TDL) 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.

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.

PE 0801380 AF LVC Operational Training (LVC-OT) - P-40A  
VIRTUAL AND CONSTRUCTIVE BATTLESPACE ENVIRONMENTS: This includes secure synthetic environments of interconnected systems supporting events and exercises to provide high-end advanced training and tactics capabilities. Solutions will support multi-domain testing and training against near peer threats for 4th/5th/6th generation aircraft platforms and related support activities.

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 life-cycle costs.

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 JBASA-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.

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 and commission approximately 1,000 2Lt's each year. The lack of WiFi is a direct, causal and imminent risk to USAFA's accreditation as a degree-granting university. Costs will be in excess of the 1.5M programmed each year across the FYDP, and will continue year-by-year after until the disconnects/deficiencies are fixed (estimated at 8+ years).

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.

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:

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>student management, course design and development (for AETC and METC), student evaluation, statistical analysis and reporting, surveys, assessments and testing, Airman Interactive Management System (AIMS) for MTLs, Job Match/Seat Bank, and TTMS BMT for student processing.</p> <p>PE 0804751F Professional Military Education - P-40A Air University (AU) Education Technology (ET) Program funds the cradle-to-grave lifecycle management of IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force. As AU aggressively pursues the enhancement of processes by which educational products are delivered to students, ET/IT demands will increase in frequency and complexity. Quickly revising software and inserting technology into those processes in a timeframe adequate to realize return on investment dollars or educational benefits requires an appropriately resourced A6 organization.</p> <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 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 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.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): **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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	US Northern Command Communications	P-5a, P-21	A		- / -	- / 3.819	- / 3.406	- / 3.696	- / -	- / 3.696
P-5	Electronic Warfare Integrated Reprogramming (EWIR)	P-5a, P-21	A		- / -	- / 1.466	- / 1.306	- / 1.419	- / -	- / 1.419
P-5	C2ISR Tactical Data Link	P-5a, P-21	A		- / -	- / 3.342	- / 2.978	- / 3.800	- / -	- / 3.800
P-5	National Technical Nuclear Forensics	P-5a, P-21	A		- / -	- / 5.202	- / 4.000	- / 5.666	- / -	- / 5.666
P-5	Wargaming and Simulation Centers		A		- / -	- / 0.000	1 / 0.698	4 / 0.757	- / -	4 / 0.757
P-5	Distributed Training and Exercises	P-5a, P-21	A		- / -	- / 0.330	- / 0.293	- / 0.320	- / -	- / 0.320
P-5	Intel Data Applications		A		- / -	- / 5.444	- / 5.046	- / 0.332	- / -	- / 0.332
P-5	Security and Investigative Activities	P-5a, P-21	B		- / -	1 / 0.450	1 / 1.560	1 / 1.693	- / -	1 / 1.693
P-5	Mission Partner Environments	P-5a, P-21	A		- / -	- / 0.478	- / 32.083	- / 14.887	- / -	- / 14.887
P-5	Communications and Information Technology		A		- / -	- / 3.796	- / 1.689	- / 1.261	- / -	- / 1.261
P-5	Tactical Data Networks Enterprise	P-5a, P-21	A		- / -	1 / 2.407	1 / 4.213	1 / 39.890	- / -	1 / 39.890
P-5	Logistics Support Activities		A		- / -	- / 1.491	- / 1.504	- / 2.018	- / -	- / 2.018
P-5	AF LVC Operational Training (LVC-OT)		A		- / -	- / 3.354	- / 11.858	- / 20.547	- / -	- / 20.547
P-5	Recruit Training Units		A		- / -	- / 0.629	- / 0.664	- / 0.803	- / -	- / 0.803
P-5	Service Academies	P-5a, P-21	A		- / -	- / 1.498	- / 1.387	- / 2.333	- / -	- / 2.333
P-5	General Skill Training		A		- / -	- / 0.684	- / 0.444	- / 0.663	- / -	- / 0.663
P-5	Professional Military Education	P-5a, P-21	A		- / -	- / 0.398	- / 0.888	8 / 0.965	- / -	8 / 0.965
P-5	Other Professional Education	P-5a, P-21	A		- / -	- / 0.482	- / 0.430	- / 0.467	- / -	- / 0.467
P-5	Financial Management Information Systems Development	P-5a, P-21	A		- / -	1 / 0.694	- / 0.000	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 35.964</b>	<b>- / 74.447</b>	<b>- / 101.517</b>	<b>- / -</b>	<b>- / 101.517</b>

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

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

**Justification:**  
 FY23 Enduring Requirements funding in PE 0208288F will procure hardware and supporting software relevant for the communications infrastructures required to support Intelligence data applications

PE 0201130F US Northern Command Communications - P-40A  
 a. NORAD AND USNORTHCOM INTEROPERABLE COMMUNICATIONS: FY 23 funding will ensure 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  
 FY 2023 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.

PE 0207448F C2ISR Tactical Data Link - P-40A

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>FY23 funding will support procurement and upgrade of Link 16 MIDS Joint Tactical Radio System (JTRS) radios which 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 2023 funding will procure terrestrial-based nodes/sensors 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 as well as initial installation costs.</p> <p>PE 0207605F Wargaming and Simulation Centers - P-40A FY23 funding will enable WPC to lead USAFE and AFRICA toward full integration of Live, Virtual, and Constructive (LVC) capabilities with our Coalition partners and assures capital equipment replacement / network system upgrades for the command and control, warfighting, and support training systems at the tactical and operational levels of warfare.</p> <p>PE 0207697F Distributed Training and Exercises - P-40A AIR FORCE DISTRICT WASHINGTON: FY 2023 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. Develop and assimilate tools that capture consequences of alternative force structures and capabilities employed in wargames to inform Department of the Air Force (DAF) budgeting and programming choices needed to fully implement and align with the National Defense Strategy. Continue to expand and develop the Headquarters USAF (HAF) Wargaming Information Environment (WIE) by integrating the latest technology and tools that will support of a more flexible, robust, and agile wargaming enterprise that is quicker to respond and tailorable for a wider range of wargaming.</p> <p>PE 0208288F Intel Data Applications - P-40A FY 2023 funds will support 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 FY23 funds will provide AFOSI Server Virtualization, which will increase efficiency of limited system administrative staff and reduce future capital investment costs of new hardware. The virtual server environment also delivers new capability not available in a non-virtual server environment, such as rapid Information Assurance patching, automatic error detection, failover and disaster recovery of critical applications, reduce footprint from both a physical space and energy perspective. These funds will enable AFOSI standard IT equipment and specialized investigative equipment to provide the latest capabilities of specialized investigative support to DoD/USAF investigations/operations both in-garrison and in support of wartime operations, for over 3,000 AFOSI personnel in more than 250 worldwide locations.</p> <p>PE 0305601F Mission Partner Environments - P-40A FY23 funding will procure hardware and software to support Mission Partner Environment operations. In response to program decision memorandum, funding for Mission Partner Environment transferred the capabilities: 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 (CFBLNet) 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 also increases overall combat effectiveness by leveraging capabilities and information from all partners.</p> <p>PE 0604281F Tactical Data Networks Enterprise - P-40A FY23 funding will provide 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 Link (TDL) 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</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>FY23 funding will continue to update 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. Continues efforts 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.</p> <p>PE 0801380F AF LVC Operational Training (LVC-OT) - P-40A  a. VIRTUAL AND CONSTRUCTIVE BATTLESPACE ENVIRONMENTS: FY 2023 funding will support procurement of hardware necessary to establish multi-domain, high-end advanced training and tactics against near peer threats and related support activities.</p> <p>b. SIMULATOR COMMON ARCHITECTURE REQUIREMENTS AND STANDARDS (SCARS): Funding supports procurement of hardware necessary to establish a common open system architecture for Air Force simulators. FY 2023 efforts include, but are not limited to, site connections to the operations center and equipment.</p> <p>PE 0804711F Recruit Training Units - P-40A  FY23 funding will procure 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:  FY23 funding will be used for the FIX AIR FORCE ACADEMY MISSION NET effort. This effort specifically provides WIFI system components across the academic mission area. 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 and commission approximately 1,000 2Lt's each year (the lack of WiFi is a direct, causal and 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 and 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  FY23 funding will support 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  FY23 funding will procure IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force.</p> <p>PE 0804752F Other Professional Education - P-40A  FY23 funding will provide 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
PE 0901538F Financial Management Information Systems Development - P-40A No funds requested in FY23		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> US Northern Command Communications

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	3.819	3.406	3.696	-	3.696
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	3.819	3.406	3.696	-	3.696
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>3.819</b>	<b>3.406</b>	<b>3.696</b>	-	<b>3.696</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - US Northern Command Communications Cost</b>																		
Recurring Cost																		
Deployable Comms Infrastructure/ Equipment <sup>(f)</sup>	-	-	-	1.231	1	1.231	0.867	1	0.867	1.247	1	1.247	-	-	-	1.247	1	1.247
Rapid Response Kit Level 1 <sup>(f)</sup>	-	-	-	0.538	1	0.538	0.550	1	0.550	0.559	1	0.559	-	-	-	0.559	1	0.559
Satellite Comms Lifecycle / Modernization <sup>(f)</sup>	-	-	-	-	-	-	0.549	1	0.549	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.769	-	-	1.966	-	-	1.806	-	-	-	-	-	1.806
<i>Subtotal: Hardware - US Northern Command Communications Cost</i>	-	-	-	-	-	1.769	-	-	1.966	-	-	1.806	-	-	-	-	-	1.806
<b>Vehicles - US Northern Command Communications Cost</b>																		
Recurring Cost																		
ERV / MCP Mobile Comms Systems Lifecycle <sup>(f)</sup>	-	-	-	1.025	2	2.050	0.720	2	1.440	1.890	1	1.890	-	-	-	1.890	1	1.890
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.050	-	-	1.440	-	-	1.890	-	-	-	-	-	1.890
<i>Subtotal: Vehicles - US Northern Command Communications Cost</i>	-	-	-	-	-	2.050	-	-	1.440	-	-	1.890	-	-	-	-	-	1.890
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>3.819</b>	-	-	<b>3.406</b>	-	-	<b>3.696</b>	-	-	-	-	-	<b>3.696</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> US Northern Command Communications
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Remarks:</b> Current contract W15P7T-13-D-0015/W15P7T-18-F-0086; Current vendor: DataPath; Current PoP ends 25Mar22 Contract vehicle in new acquisition / re-compete process; Forecasted award: March 2022  (t) indicates the presence of a P-5a		

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> US Northern Command Communications
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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 (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Deployable Comms Infrastructure/ Equipment <sup>(†)</sup>		2021	Varied / Varied	Various	ARMY/ACC	Mar 2022	Feb 2023	1	1.231	Y		
Deployable Comms Infrastructure/ Equipment <sup>(†)</sup>		2022	Varied / Varied	Various	ARMY/ACC	Mar 2022	Feb 2023	1	0.867	Y		
Deployable Comms Infrastructure/ Equipment <sup>(†)</sup>		2023	Varied / Varied	Various	ARMY/ACC	Mar 2023	Mar 2024	1	1.247	Y		
Rapid Response Kit Level 1 <sup>(†)</sup>		2021	Varied / Varied	Various	ARMY/ACC	Mar 2022	Feb 2023	1	0.538	Y		
Rapid Response Kit Level 1 <sup>(†)</sup>		2022	Varied / Varied	Various	ARMY/ACC	Mar 2022	Feb 2023	1	0.550	Y		
Rapid Response Kit Level 1 <sup>(†)</sup>		2023	Varied / Varied	Various	ARMY/ACC	Mar 2023	Mar 2024	1	0.559	Y		
Satellite Comms Lifecycle / Modernization <sup>(†)</sup>		2022	Varied / Varied	Various	ARMY/ACC	Mar 2022	Oct 2023	1	0.549	Y		
ERV / MCP Mobile Comms Systems Lifecycle		2021	Varied / Varied	Various	ARMY/ACC	Mar 2022	Oct 2022	2	1.025	Y		
ERV / MCP Mobile Comms Systems Lifecycle		2022	Varied / Varied	Various	ARMY/ACC	Mar 2022	Oct 2022	2	0.720	Y		
ERV / MCP Mobile Comms Systems Lifecycle <sup>(†)</sup>		2023	Varied / Varied	Various	ARMY/ACC	Mar 2023	Oct 2023	1	1.890	Y		

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

**Remarks:**

Current contract W15P7T-13-D-0015/W15P7T-18-F-0086; Current vendor: DataPath; Current PoP ends 25Mar22  
Contract vehicle in new acquisition / re-compete process; Forecasted award: March 2022

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> US Northern Command Communications
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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					
Deployable Comms Infrastructure/Equipment																																			
	1	2021	AF	1	0	1																									0				
	1	2022	AF	1	0	1																									0				
	1	2023	AF	1	0	1																									1				
Rapid Response Kit Level 1																																			
	2	2021	AF	1	0	1																								0					
	2	2022	AF	1	0	1																								0					
	2	2023	AF	1	0	1																									1				
Satellite Comms Lifecycle / Modernization																																			
	3	2022	AF	1	0	1																									1				
ERV / MCP Mobile Comms Systems Lifecycle																																			
	4	2023	AF	1	0	1																									1				
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> US Northern Command Communications
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												BALANCE	
O C O #	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
Deployable Comms Infrastructure/Equipment																															
1		2021	AF	1	1	0																							0		
1		2022	AF	1	1	0																							0		
1		2023	AF	1	0	1	-	-	-	-	-	-	1																0		
Rapid Response Kit Level 1																															
2		2021	AF	1	1	0																							0		
2		2022	AF	1	1	0																							0		
2		2023	AF	1	0	1	-	-	-	-	-	-	1																0		
Satellite Comms Lifecycle / Modernization																															
3		2022	AF	1	0	1	1																						0		
ERV / MCP Mobile Comms Systems Lifecycle																															
4		2023	AF	1	0	1	1																						0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
		<b>Item Number / Title [DODIC]:</b> US Northern Command Communications

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Varied - Varied	1	1	1	0	0	0	0	0	1	6	12	18
2	Varied - Varied	1	1	1	0	0	0	0	0	1	6	12	18
3	Varied - Varied	1	1	1	0	0	0	0	0	1	6	19	25
4	Varied - Varied	1	1	1	0	0	0	0	0	1	6	7	13

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

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



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	1.466	1.306	1.419	-	1.419
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	1.466	1.306	1.419	-	1.419
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>1.466</b>	<b>1.306</b>	<b>1.419</b>	-	<b>1.419</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - EWIR Hardware Cost																		
Recurring Cost																		
Client PCs <sup>(†)</sup>	-	-	-	0.200	1	0.200	0.180	1	0.180	0.196	1	0.196	-	-	-	0.196	1	0.196
Computer Server <sup>(†)</sup>	-	-	-	0.600	1	0.600	0.524	1	0.524	0.569	1	0.569	-	-	-	0.569	1	0.569
Data Storage System <sup>(†)</sup>	-	-	-	0.461	1	0.461	0.421	1	0.421	0.457	1	0.457	-	-	-	0.457	1	0.457
Network Infrastructure <sup>(†)</sup>	-	-	-	0.205	1	0.205	0.181	1	0.181	0.197	1	0.197	-	-	-	0.197	1	0.197
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.466	-	-	1.306	-	-	1.419	-	-	-	-	-	1.419
<i>Subtotal: Hardware - EWIR Hardware Cost</i>	-	-	-	-	-	1.466	-	-	1.306	-	-	1.419	-	-	-	-	-	1.419
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	1.466	-	-	1.306	-	-	1.419	-	-	-	-	-	1.419

<sup>(†)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force</b>							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology				<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)					

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
Client PCs <sup>(†)</sup>		2021	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2021	Apr 2021	1	0.200	Y		
Client PCs <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.180	Y		
Client PCs <sup>(†)</sup>		2023	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2023	Apr 2023	1	0.196	Y		
Computer Server <sup>(†)</sup>		2021	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2021	Apr 2021	1	0.600	Y		
Computer Server <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.524	Y		
Computer Server <sup>(†)</sup>		2023	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2023	Apr 2023	1	0.569	Y		
Data Storage System <sup>(†)</sup>		2021	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2021	Apr 2021	1	0.461	Y		
Data Storage System <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.421	Y		
Data Storage System <sup>(†)</sup>		2023	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2023	Apr 2023	1	0.457	Y		
Network Infrastructure <sup>(†)</sup>		2021	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2021	Apr 2021	1	0.205	Y		
Network Infrastructure <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.181	Y		
Network Infrastructure <sup>(†)</sup>		2023	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2023	Apr 2023	1	0.197	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology										<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Client PCs																																			
	1	2021	AF	1	0	1																										0			
	1	2022	AF	1	0	1																										0			
	1	2023	AF	1	0	1																										1			
Computer Server																																			
	2	2021	AF	1	0	1																										0			
	2	2022	AF	1	0	1																										0			
	2	2023	AF	1	0	1																										1			
Data Storage System																																			
	3	2021	AF	1	0	1																										0			
	3	2022	AF	1	0	1																										0			
	3	2023	AF	1	0	1																										1			
Network Infrastructure																																			
	4	2021	AF	1	0	1																										0			
	4	2022	AF	1	0	1																										0			
	4	2023	AF	1	0	1																										1			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force																							<b>Date:</b> April 2021												
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology										<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023										Fiscal Year 2024										BALANCE								
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024																		
							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				
Client PCs																																			
1	2021	AF		1	1	0																													
1	2022	AF		1	1	0																													
1	2023	AF		1	0	1																													
Computer Server																																			
2	2021	AF		1	1	0																													
2	2022	AF		1	1	0																													
2	2023	AF		1	0	1																													
Data Storage System																																			
3	2021	AF		1	1	0																													
3	2022	AF		1	1	0																													
3	2023	AF		1	0	1																													
Network Infrastructure																																			
4	2021	AF		1	1	0																													
4	2022	AF		1	1	0																													
4	2023	AF		1	0	1																													

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
		<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	1	6	1	7	1	6	1	7
2	Various - Various	1	1	1	1	6	1	7	1	6	1	7
3	Various - Various	1	1	1	1	6	1	7	1	6	1	7
4	Various - Various	1	1	1	1	6	1	7	1	6	1	7

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> C2ISR Tactical Data Link

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	3.342	2.978	3.800	-	3.800
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	3.342	2.978	3.800	-	3.800
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>3.342</b>	<b>2.978</b>	<b>3.800</b>	-	<b>3.800</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - C2ISR Tactical Data Link Cost																		
Recurring Cost																		
Install Kits (Active) PE 0207488F <sup>(†)</sup>	-	-	-	0.260	12	3.120	0.229	13	2.978	0.292	13	3.800	-	-	-	0.292	13	3.800
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.120	-	-	2.978	-	-	3.800	-	-	-	-	-	3.800
<i>Subtotal: Hardware - C2ISR Tactical Data Link Cost</i>	-	-	-	-	-	3.120	-	-	2.978	-	-	3.800	-	-	-	-	-	3.800
Support - C2ISR Tactical Data Link Cost																		
Other Government Support <sup>(†)</sup>	-	-	-	0.222	1	0.222	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - C2ISR Tactical Data Link Cost</i>	-	-	-	-	-	0.222	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>3.342</b>	-	-	<b>2.978</b>	-	-	<b>3.800</b>	-	-	-	-	-	<b>3.800</b>

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> C2ISR Tactical Data Link
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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
Install Kits (Active) PE 0207488F		2021	ULTRA ELECTRONICS ADVANCED TACTICAL ADVANCED TACTICAL SYSTEMS / Austin, TX	C / Various	AFLCMC/WN - Agile Combat Systems	Jun 2021	Jul 2021	6	0.260	Y		
Install Kits (Active) PE 0207488F		2021	TBD / TBD	TBD	TBD	Jan 2022	Feb 2022	0	0.222	Y		
Install Kits (Active) PE 0207488F		2021	INTERFUZE CORPORATION / HUNTSVILLE AL	C / Various	AFLCMC/WN - Agile Combat Systems	Sep 2021	Oct 2021	6	0.260	Y		
Install Kits (Active) PE 0207488F		2022	TBD / TBD	TBD	TBD	Mar 2022	Apr 2022	13	0.229	Y		
Install Kits (Active) PE 0207488F <sup>(†)</sup>		2023	TBD / TBD	TBD	TBD	Mar 2023	Apr 2023	13	0.292	Y		
Other Government Support <sup>(†)</sup>		2021	APPLIED RESEARCH SOLUTIONS, INC. / BEAVERCREEK OH	C / CPFF	AFLCMC Hanscom AFB	Apr 2021	Apr 2021	1	0.222	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> C2ISR Tactical Data Link
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Install Kits (Active) PE 0207488F																																			
1	2023	AF		13	0	13																													13
Other Government Support																																			
2	2021	AF		1	0	1																													0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> C2ISR Tactical Data Link
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 2	BAL D U E A S O F 1 O C T	Calendar Year 2023												Calendar Year 2024												
							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
Install Kits (Active) PE 0207488F																															
	1	2023	AF	13	0	13																							12		
Other Government Support																															
	2	2021	AF	1	1	0																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> C2ISR Tactical Data Link
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	1	1	1	0	0	0	0	0	1	6	1	7
2	APPLIED RESEARCH SOLUTIONS, INC. - BEAVERCREEK OH	1	1	1	0	0	0	0	0	1	7	0	7

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology			<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	5.202	4.000	5.666	-	5.666
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	5.202	4.000	5.666	-	5.666
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>5.202</b>	<b>4.000</b>	<b>5.666</b>	-	<b>5.666</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - National Technical Nuclear Forensics Sensors Cost</b>																		
Non Recurring Cost																		
Sensor Type 1 <sup>(t)</sup>	-	-	-	0.114	2	0.228	-	-	-	-	-	-	-	-	-	-	-	-
Sensor Type 2 <sup>(t)</sup>	-	-	-	0.049	1	0.049	-	-	-	-	-	-	-	-	-	-	-	-
Sensor Type 3 <sup>(t)</sup>	-	-	-	0.331	3	0.993	-	-	-	-	-	-	-	-	-	-	-	-
Sensor Type 4 <sup>(t)</sup>	-	-	-	0.017	3	0.051	-	-	-	-	-	-	-	-	-	-	-	-
Sensor Type 5 <sup>(t)</sup>	-	-	-	0.027	9	0.243	-	-	-	-	-	-	-	-	-	-	-	-
Sensor Type 6 <sup>(t)</sup>	-	-	-	0.062	7	0.434	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Integration and Testing	-	-	-	0.060	1	0.060	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	-	0.407	1	0.407	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	2.465	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - National Technical Nuclear Forensics Sensors Cost</i>	-	-	-	-	-	2.465	-	-	-	-	-	-	-	-	-	-	-	-
<b>Hardware - NTNF Site Installations Cost</b>																		
Non Recurring Cost																		
Detailed Installation Plan Update Site <sup>1(t)</sup>	-	-	-	0.065	1	0.065	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site <sup>1(t)</sup>	-	-	-	0.381	1	0.381	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology						<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Detailed Installation Plan Site2 <sup>(†)</sup>	-	-	-	0.084	1	0.084	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site2 <sup>(†)</sup>	-	-	-	0.194	1	0.194	-	-	-	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site3 <sup>(†)</sup>	-	-	-	0.119	1	0.119	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site3 <sup>(†)</sup>	-	-	-	-	-	-	0.394	1	0.394	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site4 <sup>(†)</sup>	-	-	-	0.100	1	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site4 <sup>(†)</sup>	-	-	-	-	-	-	0.394	1	0.394	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site5 <sup>(†)</sup>	-	-	-	0.110	1	0.110	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site5 <sup>(†)</sup>	-	-	-	-	-	-	0.394	1	0.394	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site6 <sup>(†)</sup>	-	-	-	0.110	1	0.110	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site6 <sup>(†)</sup>	-	-	-	-	-	-	0.394	1	0.394	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site7 <sup>(†)</sup>	-	-	-	0.110	1	0.110	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site7 <sup>(†)</sup>	-	-	-	-	-	-	0.394	1	0.394	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site8 <sup>(†)</sup>	-	-	-	0.110	1	0.110	-	-	-	-	-	-	-	-	-	-	-	-
Installation of Sensors Site8 <sup>(†)</sup>	-	-	-	-	-	-	0.394	1	0.394	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site9 <sup>(†)</sup>	-	-	-	-	-	-	0.113	1	0.113	-	-	-	-	-	-	-	-	-
Installation of Sensors Site9 <sup>(†)</sup>	-	-	-	-	-	-	0.394	1	0.394	-	-	-	-	-	-	-	-	-
Detailed Installation Plan Site10 <sup>(†)</sup>	-	-	-	-	-	-	0.113	1	0.113	-	-	-	-	-	-	-	-	-
Installation of Sensors Site10 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology						<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Detailed Installation Plan Site11 <sup>(†)</sup>	-	-	-	-	-	-	0.113	1	0.113	-	-	-	-	-	-	-	-	-
Installation of Sensors Site11 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404
Detailed Installation Plan Site12 <sup>(†)</sup>	-	-	-	-	-	-	0.113	1	0.113	-	-	-	-	-	-	-	-	-
Installation of Sensors Site12 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404
Detailed Installation Plan Site13 <sup>(†)</sup>	-	-	-	-	-	-	0.113	1	0.113	-	-	-	-	-	-	-	-	-
Installation of Sensors Site13 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404
Detailed Installation Plan Site14 <sup>(†)</sup>	-	-	-	-	-	-	0.113	1	0.113	-	-	-	-	-	-	-	-	-
Installation of Sensors Site14 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404
Detailed Installation Plan Site15 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Installation of Sensors Site15 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404
Detailed Installation Plan Site16 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Installation of Sensors Site16 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404
Detailed Installation Plan Site17 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Installation of Sensors Site17 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.404	1	0.404	-	-	-	0.404	1	0.404
Detailed Installation Plan Site18 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site19 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site20 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site21 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology						<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Detailed Installation Plan Site22 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site23 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site24 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site25 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site26 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Detailed Installation Plan Site27 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.115	1	0.115	-	-	-	0.115	1	0.115
Program Management Administration (PMA) <sup>(†)</sup>	-	-	-	-	-	1.354	0.564	1	0.564	0.939	1	0.939	-	-	-	0.939	1	0.939
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	2.737	-	-	4.000	-	-	5.666	-	-	-	-	-	5.666
<i>Subtotal: Hardware - NTNF Site Installations Cost</i>	-	-	-	-	-	2.737	-	-	4.000	-	-	5.666	-	-	-	-	-	5.666
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	5.202	-	-	4.000	-	-	5.666	-	-	-	-	-	5.666

<sup>(†)</sup> indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force								Date: April 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834010 / General Information Technology					Item Number / Title [DODIC]: National Technical Nuclear Forensics				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Sensor Type 1 <sup>(†)</sup>		2021	Honeywell FM&T, LLC / Kansas City, MO	MIPR	AFLCMC/WI - ISR & SOF	Jan 2021	Apr 2023	2	0.114	Y		
Sensor Type 2 <sup>(†)</sup>		2021	Honeywell FM&T, LLC / Kansas City, MO	MIPR	AFLCMC/WI - ISR & SOF	Jan 2021	Jun 2022	1	0.049	Y		
Sensor Type 3 <sup>(†)</sup>		2021	Honeywell FM&T, LLC / Kansas City, MO	MIPR	AFLCMC/WI - ISR & SOF	Jan 2021	Jan 2023	3	0.331	Y		
Sensor Type 4 <sup>(†)</sup>		2021	Honeywell FM&T, LLC / Kansas City, MO	MIPR	AFLCMC/WI - ISR & SOF	Apr 2021	Mar 2023	3	0.017	Y		
Sensor Type 5 <sup>(†)</sup>		2021	Honeywell FM&T, LLC / Kansas City, MO	MIPR	AFLCMC/WI - ISR & SOF	Apr 2021	Jun 2022	9	0.027	Y		
Sensor Type 6 <sup>(†)</sup>		2021	Honeywell FM&T, LLC / Kansas City, MO	MIPR	AFLCMC/WI - ISR & SOF	Apr 2021	Nov 2022	7	0.062	Y		
Detailed Installation Plan Update Site1 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FPIF	AFLCMC/WI - ISR & SOF	Jan 2022	Feb 2022	1	0.065	Y		
Installation of Sensors Site1 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FPIF	AFLCMC/WI - ISR & SOF	Apr 2022	Jun 2022	1	0.381	Y		
Detailed Installation Plan Site2 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FPIF	AFLCMC/WI - ISR & SOF	Apr 2021	May 2021	1	0.084	Y		
Installation of Sensors Site2 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FPIF	AFLCMC/WI - ISR & SOF	Oct 2021	Feb 2022	1	0.194	Y		
Detailed Installation Plan Site3 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FPIF	AFLCMC/WI - ISR & SOF	Jun 2021	Sep 2021	1	0.119	Y		
Installation of Sensors Site3 <sup>(†)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FPIF	AFLCMC/WI - ISR & SOF	Mar 2022	May 2022	1	0.394	Y		
Detailed Installation Plan Site4 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Jul 2021	Dec 2021	1	0.100	Y		
Installation of Sensors Site4 <sup>(†)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2022	Jun 2022	1	0.394	Y		
Detailed Installation Plan Site5 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Dec 2021	Mar 2022	1	0.110	Y		
Installation of Sensors Site5 <sup>(†)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	May 2022	Jul 2022	1	0.394	Y		
Detailed Installation Plan Site6 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Mar 2022	Jun 2022	1	0.110	Y		
Installation of Sensors Site6 <sup>(†)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Jul 2022	Aug 2022	1	0.394	Y		
Detailed Installation Plan Site7 <sup>(†)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2022	Jul 2022	1	0.110	Y		
Installation of Sensors Site7 <sup>(†)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Aug 2022	Sep 2022	1	0.394	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force								Date: April 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834010 / General Information Technology					Item Number / Title [DODIC]: National Technical Nuclear Forensics				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Detailed Installation Plan Site8 <sup>(t)</sup>		2021	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	May 2022	Aug 2022	1	0.110	Y		
Installation of Sensors Site8 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2022	Nov 2022	1	0.394	Y		
Detailed Installation Plan Site9 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	May 2022	Jul 2022	1	0.113	Y		
Installation of Sensors Site9 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Nov 2022	Jan 2023	1	0.394	Y		
Detailed Installation Plan Site10 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	May 2022	Aug 2022	1	0.113	Y		
Installation of Sensors Site10 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Dec 2022	Jan 2023	1	0.404	Y		
Detailed Installation Plan Site11 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Jun 2022	Sep 2022	1	0.113	Y		
Installation of Sensors Site11 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Feb 2023	Mar 2023	1	0.404	Y		
Detailed Installation Plan Site12 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Aug 2022	Nov 2022	1	0.113	Y		
Installation of Sensors Site12 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Mar 2023	May 2023	1	0.404	Y		
Detailed Installation Plan Site13 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2022	Dec 2022	1	0.113	Y		
Installation of Sensors Site13 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2023	Jun 2023	1	0.404	Y		
Detailed Installation Plan Site14 <sup>(t)</sup>		2022	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Oct 2022	Jan 2023	1	0.113	Y		
Installation of Sensors Site14 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Jun 2023	Jul 2023	1	0.404	Y		
Detailed Installation Plan Site15 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Dec 2022	Mar 2023	1	0.115	Y		
Installation of Sensors Site15 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Jul 2023	Aug 2023	1	0.404	Y		
Detailed Installation Plan Site16 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Jan 2023	Apr 2023	1	0.115	Y		
Installation of Sensors Site16 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Aug 2023	Oct 2023	1	0.404	Y		
Detailed Installation Plan Site17 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Feb 2023	May 2023	1	0.115	Y		
Installation of Sensors Site17 <sup>(t)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2023	Nov 2023	1	0.404	Y		



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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics
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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
Detailed Installation Plan Site18 <sup>(†)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2023	Jul 2023	1	0.115	Y		
Detailed Installation Plan Site19 <sup>(†)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	May 2023	Aug 2023	1	0.115	Y		
Detailed Installation Plan Site20 <sup>(†)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Jun 2023	Sep 2023	1	0.115	Y		
Detailed Installation Plan Site21 <sup>(†)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Aug 2023	Oct 2023	1	0.115	Y		
Detailed Installation Plan Site22 <sup>(†)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2023	Dec 2023	1	0.115	Y		
Detailed Installation Plan Site23 <sup>(†)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2023	Jan 2024	1	0.115	Y		
Detailed Installation Plan Site24 <sup>(†)</sup>		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2023	Feb 2024	1	0.115	Y		
Detailed Installation Plan Site25		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2023	Apr 2024	1	0.115	Y		
Detailed Installation Plan Site26		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2023	May 2024	1	0.115	Y		
Detailed Installation Plan Site27		2023	Applied Research Associates, Inc. / Albuquerque NM	SS / FFP	AFLCMC/WI - ISR & SOF	Sep 2023	Jun 2024	1	0.115	Y		
Program Management Administration (PMA)		2022	Various / Dayton, OH	Various	AFLCMC/WI - ISR & SOF	Sep 2023	Jun 2024	1	0.564	Y		
Program Management Administration (PMA)		2023	Various / Dayton, OH	Various	AFLCMC/WI - ISR & SOF	Sep 2023	Jun 2024	1	0.939	Y		

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

**Remarks:**

USPDS is a follow-on effort to the Discreet Oculus (DO) program. ARA and Weston Geophysical Corp. successfully installed all sensor nodes for the DO program. Weston Geophysical Corp., was acquired by ARA, March 2019. Experience with engineering support for nuclear phenomena sensor and communications deployment to field sites is critical to the success of the overall installation process. ARA has this specialized experience and used it to reduce the duration of installations by more than 50% since the beginning of the DO program. Due to the unique nature of these sensors and time constraints to accomplish the installations, ARA was selected for the installation process.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Item Number / Title [DODIC]:** National Technical Nuclear Forensics

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Sensor Type 1																																			
	1	2021	AF	2	0	2					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2						
Sensor Type 2																																			
	2	2021	AF	1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		0						
Sensor Type 3																																			
	3	2021	AF	3	0	3				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3						
Sensor Type 4																																			
	4	2021	AF	3	0	3					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3						
Sensor Type 5																																			
	5	2021	AF	9	0	9					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	7					
Sensor Type 6																																			
	6	2021	AF	7	0	7					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7						
Detailed Installation Plan Update Site1																																			
	7	2021	AF	1	0	1																				A	-	1		0					
Installation of Sensors Site1																																			
	8	2021	AF	1	0	1																					A	-	-	1		0			
Detailed Installation Plan Site2																																			
	9	2021	AF	1	0	1						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
Installation of Sensors Site2																																			
	10	2021	AF	1	0	1														A	-	-	-	-	-	1				0					
Detailed Installation Plan Site3																																			
	11	2021	AF	1	0	1														A	-	-	-	-	1					0					
Installation of Sensors Site3																																			
	12	2022	AF	1	0	1																					A	-	-	1		0			
Detailed Installation Plan Site4																																			
	13	2021	AF	1	0	1														A	-	-	-	-	-	1					0				
Installation of Sensors Site4																																			
	14	2022	AF	1	0	1																						A	-	-	1		0		
Detailed Installation Plan Site5																																			
	15	2021	AF	1	0	1																					A	-	-	-	1		0		
Installation of Sensors Site5																																			
	16	2022	AF	1	0	1																							A	-	-	1		0	
Detailed Installation Plan Site6																																			



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021														Fiscal Year 2022														BALANCE
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Installation of Sensors Site14																																			
	34	2023	AF		1	0	1																						1						
Detailed Installation Plan Site15																																			
	35	2023	AF		1	0	1																						1						
Installation of Sensors Site15																																			
	36	2023	AF		1	0	1																						1						
Detailed Installation Plan Site16																																			
	37	2023	AF		1	0	1																						1						
Installation of Sensors Site16																																			
	38	2023	AF		1	0	1																						1						
Detailed Installation Plan Site17																																			
	39	2023	AF		1	0	1																						1						
Installation of Sensors Site17																																			
	40	2023	AF		1	0	1																						1						
Detailed Installation Plan Site18																																			
	41	2023	AF		1	0	1																						1						
Detailed Installation Plan Site19																																			
	42	2023	AF		1	0	1																						1						
Detailed Installation Plan Site20																																			
	43	2023	AF		1	0	1																						1						
Detailed Installation Plan Site21																																			
	44	2023	AF		1	0	1																						1						
Detailed Installation Plan Site22																																			
	45	2023	AF		1	0	1																						1						
Detailed Installation Plan Site23																																			
	46	2023	AF		1	0	1																						1						
Detailed Installation Plan Site24																																			
	47	2023	AF		1	0	1																						1						
								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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Sensor Type 1																																	
	1	2021	AF	2	0	2	-	-	-	-	-	-	-	1															1				
Sensor Type 2																																	
	2	2021	AF	1	1	0																							0				
Sensor Type 3																																	
	3	2021	AF	3	0	3	-	-	-	1																			2				
Sensor Type 4																																	
	4	2021	AF	3	0	3	-	-	-	-	-	1																	2				
Sensor Type 5																																	
	5	2021	AF	9	2	7	-	2	1	1	1	1																	0				
Sensor Type 6																																	
	6	2021	AF	7	0	7	-	1	1	1	-	1	2	-	-	1													0				
Detailed Installation Plan Update Site1																																	
	7	2021	AF	1	1	0																							0				
Installation of Sensors Site1																																	
	8	2021	AF	1	1	0																							0				
Detailed Installation Plan Site2																																	
	9	2021	AF	1	1	0																							0				
Installation of Sensors Site2																																	
	10	2021	AF	1	1	0																							0				
Detailed Installation Plan Site3																																	
	11	2021	AF	1	1	0																							0				
Installation of Sensors Site3																																	
	12	2022	AF	1	1	0																							0				
Detailed Installation Plan Site4																																	
	13	2021	AF	1	1	0																							0				
Installation of Sensors Site4																																	
	14	2022	AF	1	1	0																							0				
Detailed Installation Plan Site5																																	
	15	2021	AF	1	1	0																							0				
Installation of Sensors Site5																																	
	16	2022	AF	1	1	0																							0				
Detailed Installation Plan Site6																																	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	A	A	U	U	A	E	C	O	V	E	A	E	A	A	U	U	A	S			
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			

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**Exhibit P-21, Production Schedule: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																	
							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							
17	2021	AF		1	1	0																															0
Installation of Sensors Site6																																					
18	2022	AF		1	1	0																														0	
Detailed Installation Plan Site7																																					
19	2021	AF		1	1	0																														0	
Installation of Sensors Site7																																					
20	2022	AF		1	1	0																														0	
Detailed Installation Plan Site8																																					
21	2021	AF		1	1	0																														0	
Installation of Sensors Site8																																					
22	2022	AF		1	0	1			-	1																										0	
Detailed Installation Plan Site9																																					
23	2022	AF		1	1	0																														0	
Installation of Sensors Site9																																					
24	2022	AF		1	0	1			A	-		-		1																						0	
Detailed Installation Plan Site10																																					
25	2022	AF		1	1	0																														0	
Installation of Sensors Site10																																					
26	2023	AF		1	0	1				A	-		1																							0	
Detailed Installation Plan Site11																																					
27	2022	AF		1	1	0																														0	
Installation of Sensors Site11																																					
28	2023	AF		1	0	1				A	-		1																							0	
Detailed Installation Plan Site12																																					
29	2022	AF		1	0	1			-	1																										0	
Installation of Sensors Site12																																					
30	2023	AF		1	0	1				A	-		-		1																					0	
Detailed Installation Plan Site13																																					
31	2022	AF		1	0	1			-	-		1																								0	
Installation of Sensors Site13																																					
32	2023	AF		1	0	1				A	-		-		1																					0	
Detailed Installation Plan Site14																																					
33	2022	AF		1	0	1		A	-		-		-		1																					0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2023 Air Force Date: April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 P-1 Line Item Number / Title: 834010 / General Information Technology Item Number / Title [DODIC]: National Technical Nuclear Forensics

Table with columns: Cost Elements (Units in Each), Fiscal Year 2023, Fiscal Year 2024, BALANCE. Rows include: Installation of Sensors Site14, Detailed Installation Plan Site15, Installation of Sensors Site15, Detailed Installation Plan Site16, Installation of Sensors Site16, Detailed Installation Plan Site17, Installation of Sensors Site17, Detailed Installation Plan Site18, Installation of Sensors Site18, Detailed Installation Plan Site19, Installation of Sensors Site19, Detailed Installation Plan Site20, Installation of Sensors Site20, Detailed Installation Plan Site21, Installation of Sensors Site21, Detailed Installation Plan Site22, Installation of Sensors Site22, Detailed Installation Plan Site23, Installation of Sensors Site23, Detailed Installation Plan Site24, Installation of Sensors Site24.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Item Number / Title [DODIC]:** National Technical Nuclear Forensics

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Honeywell FM&T, LLC - Kansas City, MO	1	1	1	0	0	0	0	0	30	4	27	31
2	Honeywell FM&T, LLC - Kansas City, MO	1	1	1	0	0	0	0	0	30	4	17	21
3	Honeywell FM&T, LLC - Kansas City, MO	1	1	1	0	0	0	0	0	30	4	24	28
4	Honeywell FM&T, LLC - Kansas City, MO	1	1	1	0	0	0	0	0	30	7	23	30
5	Honeywell FM&T, LLC - Kansas City, MO	4	4	9	0	0	0	0	0	30	7	14	21
6	Honeywell FM&T, LLC - Kansas City, MO	3	3	7	0	0	0	0	0	30	7	19	26
7	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	16	1	17	0	0	0	0	0
8	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	19	2	21	0	0	0	0	0
9	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	7	1	8	0	0	0	0	0
10	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	13	4	17	0	0	0	0	0
11	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	9	3	12	0	0	0	0	0
12	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	6	2	8	0	0	0	0	0
13	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	10	5	15	0	0	0	0	0
14	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	7	2	9	0	0	0	0	0
15	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	15	3	18	0	0	0	0	0



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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
16	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	8	2	10	0	0	0	0
17	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	18	3	21	0	0	0	0
18	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	10	1	11	0	0	0	0
19	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	19	3	22	0	0	0	0
20	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	11	1	12	0	0	0	0
21	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	20	3	23	0	0	0	0
22	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	12	2	14	0	0	0	0
23	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	8	2	10	0	0	0	0
24	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	14	2	16	0	0	0	0
25	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	8	3	11	0	0	0	0
26	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	3	1	4	0	0	0	0
27	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	9	3	12	0	0	0	0
28	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	5	1	6	0	0	0	0

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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
29	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	11	3	14	0	0	0	0
30	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	6	2	8	0	0	0	0
31	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	12	3	15	0	0	0	0
32	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	7	2	9	0	0	0	0
33	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	13	3	16	0	0	0	0
34	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	9	1	10	0	0	0	0
35	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	3	3	6	0	0	0	0
36	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	10	1	11	0	0	0	0
37	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	4	3	7	0	0	0	0
38	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	11	2	13	0	0	0	0
39	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	5	3	8	0	0	0	0
40	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	12	2	14	0	0	0	0
41	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	7	3	10	0	0	0	0

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> National Technical Nuclear Forensics
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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
42	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	8	3	11	0	0	0	0
43	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	9	3	12	0	0	0	0
44	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	11	2	13	0	0	0	0
45	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	12	3	15	0	0	0	0
46	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	12	4	16	0	0	0	0
47	Applied Research Associates, Inc. - Albuquerque NM	1	1	1	30	12	5	17	0	0	0	0

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology			<b>Item Number / Title [DODIC]:</b> Wargaming and Simulation Centers		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )			-	-	1	4	-	4
Gross/Weapon System Cost ( <i>\$ in Millions</i> )			-	0.000	0.698	0.757	-	0.757
Less PY Advance Procurement ( <i>\$ in Millions</i> )			-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )			-	0.000	0.698	0.757	-	0.757
Plus CY Advance Procurement ( <i>\$ in Millions</i> )			-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )			-	<b>0.000</b>	<b>0.698</b>	<b>0.757</b>	-	<b>0.757</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares ( <i>\$ in Millions</i> )			-	0.000	0.000	0.000	-	0.000
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )			-	-	0.698	0.189	-	0.189

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Wargaming and Simulation Centers Cost																		
Recurring Cost																		
636863	-	-	-	-	-	0.000	0.698	1	0.698	0.189	4	0.757	-	-	-	0.189	4	0.757
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.698	-	-	0.757	-	-	-	-	-	0.757
<i>Subtotal: Hardware - Wargaming and Simulation Centers Cost</i>	-	-	-	-	-	0.000	-	-	0.698	-	-	0.757	-	-	-	-	-	0.757
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	0.698	1	0.698	0.189	4	0.757	-	-	-	0.189	4	0.757

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Distributed Training and Exercises

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.330	0.293	0.320	-	0.320
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.330	0.293	0.320	-	0.320
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>0.330</b>	<b>0.293</b>	<b>0.320</b>	-	<b>0.320</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
<b>Hardware - Distributed Training and Exercises Cost</b>																		
<b>Recurring Cost</b>																		
Wargaming Information Environment (WIE) <sup>(†)</sup>	-	-	-	0.330	1	0.330	0.293	1	0.293	0.320	1	0.320	-	-	-	0.320	1	0.320
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.330	-	-	0.293	-	-	0.320	-	-	-	-	-	0.320
<i>Subtotal: Hardware - Distributed Training and Exercises Cost</i>	-	-	-	-	-	0.330	-	-	0.293	-	-	0.320	-	-	-	-	-	0.320
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.330	-	-	0.293	-	-	0.320	-	-	-	-	-	0.320

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Distributed Training and Exercises
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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
Wargaming Information Environment (WIE) <sup>(†)</sup>		2021	Blue Force Inc. / JB Andrews	PO	AFDW	Apr 2021	Mar 2022	1	0.330	Y		Nov 2020
Wargaming Information Environment (WIE) <sup>(†)</sup>		2022	Blue Force Inc. / JB Andrews	PO	AFDW	Apr 2022	Mar 2023	1	0.293	Y		Jan 2022
Wargaming Information Environment (WIE) <sup>(†)</sup>		2023	Blue Force Inc. / JB Andrews	PO	AFDW	Apr 2023	Mar 2024	1	0.320	Y		Jan 2023

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Distributed Training and Exercises
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
Wargaming Information Environment (WIE)																															
1		2021	AF	1	0	1																							0		
1		2022	AF	1	0	1																							1		
1		2023	AF	1	0	1																							1		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Distributed Training and Exercises
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Wargaming Information Environment (WIE)																															
1		2021	AF	1	1	0																							0		
1		2022	AF	1	0	1	-	-	-	-	-	1																	0		
1		2023	AF	1	0	1																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology				<b>Item Number / Title [DODIC]:</b> Distributed Training and Exercises				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Blue Force Inc. - JB Andrews	1	1	10,000	0	0	0	0	1	7	11	18

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

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Intel Data Applications

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	5.444	5.046	0.332	-	0.332
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	5.444	5.046	0.332	-	0.332
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>5.444</b>	<b>5.046</b>	<b>0.332</b>	-	<b>0.332</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Software - Intel Data Applications Cost																		
Recurring Cost																		
Intel Data Applications	-	-	-	5.444	1	5.444	5.046	1	5.046	0.332	1	0.332	-	-	-	0.332	1	0.332
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.444	-	-	5.046	-	-	0.332	-	-	-	-	-	0.332
<i>Subtotal: Software - Intel Data Applications Cost</i>	-	-	-	-	-	5.444	-	-	5.046	-	-	0.332	-	-	-	-	-	0.332
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	5.444	-	-	5.046	-	-	0.332	-	-	-	-	-	0.332

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Security and Investigative Activities
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	1	1	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.450	1.560	1.693	-	1.693
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.450	1.560	1.693	-	1.693
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.450</b>	<b>1.560</b>	<b>1.693</b>	-	<b>1.693</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares ( <i>\$ in Millions</i> )	-	0.000	0.000	0.000	-	0.000
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	0.450	1.560	1.693	-	1.693

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Software - Security and Investigative Activities Cost																		
Recurring Cost																		
28588007 <sup>(t)</sup>	-	-	-	0.450	1	0.450	1.560	1	1.560	1.693	1	1.693	-	-	-	1.693	1	1.693
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.450	-	-	1.560	-	-	1.693	-	-	-	-	-	1.693
<i>Subtotal: Software - Security and Investigative Activities Cost</i>	-	-	-	-	-	0.450	-	-	1.560	-	-	1.693	-	-	-	-	-	1.693
<b>Gross/Weapon System Cost</b>	-	-	-	0.450	1	0.450	1.560	1	1.560	1.693	1	1.693	-	-	-	1.693	1	1.693

**Remarks:**

FY21 - Execution did not occur due to contractor delays. Full execution planned for FY22.

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Security and Investigative Activities
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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
28588007 <sup>(†)</sup>		2021	Various / Various	Various	GSA	Jan 2021	Jan 2021	1	0.450	N	Dec 2020	
28588007 <sup>(†)</sup>		2022	Various / Various	Various	Hanscom AFB	Jan 2022	Jan 2022	1	1.560	N	Dec 2021	
28588007 <sup>(†)</sup>		2023	Various / Various	Various	Hanscom AFB	Jan 2023	Jan 2023	1	1.693	N	Dec 2022	

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Security and Investigative Activities
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021														Fiscal Year 2022														BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022																
							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							
28588007																																					
1		2021	AF	1	0	1															A1															0	
1		2022	AF	1	0	1																A1															0
1		2023	AF	1	0	1																													1		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Security and Investigative Activities
---	---	--

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023														Fiscal Year 2024														BALANCE
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
28588007																																			0
1		2021	AF	1	1	0																													0
1		2022	AF	1	1	0																													0
1		2023	AF	1	0	1					A1																								0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Security and Investigative Activities
---	---	--

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	0	0	0	0	1	4	0	4

**Remarks:**  
None

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Mission Partner Environments

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.478	32.083	14.887	-	14.887
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.478	32.083	14.887	-	14.887
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>0.478</b>	<b>32.083</b>	<b>14.887</b>	-	<b>14.887</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Hardware - Mission Partner Environments Cost																		
Recurring Cost																		
Non-DWCF Electronic and Telecommunication Equipment <sup>(t)</sup>	-	-	-	0.478	1	0.478	32.083	1	32.083	14.887	1	14.887	-	-	-	14.887	1	14.887
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.478	-	-	32.083	-	-	14.887	-	-	-	-	-	14.887
<i>Subtotal: Hardware - Mission Partner Environments Cost</i>	-	-	-	-	-	0.478	-	-	32.083	-	-	14.887	-	-	-	-	-	14.887
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.478	-	-	32.083	-	-	14.887	-	-	-	-	-	14.887

**Remarks:**

FY 2022 includes a Congressional markup for \$30,530K program increase.

<sup>(t)</sup> indicates the presence of a P-5a



**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Mission Partner Environments
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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
Non-DWCF Electronic and Telecommunication Equipment <sup>(†)</sup>		2021	GDIT / Falls Church, VA	C / FFP	AA-CDM	Jul 2022	Aug 2022	1	0.478	Y		Jan 2021
Non-DWCF Electronic and Telecommunication Equipment <sup>(†)</sup>		2022	GDIT / Falls Church, VA	C / FFP	AA-CDM	Jul 2022	Aug 2023	1	32.083	Y		Jan 2022
Non-DWCF Electronic and Telecommunication Equipment <sup>(†)</sup>		2023	GDIT / Falls Church, VA	C / FFP	AA-CDM	Jul 2023	Aug 2024	1	14.887	Y		Jan 2023

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Mission Partner Environments
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Cost Elements <i>(Units in Each)</i>				Fiscal Year 2022														Fiscal Year 2023												B A L A N C E							
O C C O	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 2 1	B A L D U 	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						
Non-DWCF Electronic and Telecommunication Equipment																																					
1		2021	AF	1	0	1																															0
1		2022	AF	1	0	1										A	-	1																		0	
1		2023	AF	1	0	1																												A	-	-	1
							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 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Item Number / Title [DODIC]:** Mission Partner Environments

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
Non-DWCF Electronic and Telecommunication Equipment																															
1		2021	AF	1	1	0																							0		
1		2022	AF	1	1	0																							0		
1		2023	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	1												0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology				<b>Item Number / Title [DODIC]:</b> Mission Partner Environments				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	GDIT - Falls Church, VA	1	1	1	0	0	0	0	1	10	13	23

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Communications and Information Technology

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	3.796	1.689	1.261	-	1.261
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	3.796	1.689	1.261	-	1.261
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>3.796</b>	<b>1.689</b>	<b>1.261</b>	-	<b>1.261</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Communications and Information Technology Cost																		
Recurring Cost																		
Communications and Information Technology	-	-	-	3.796	1	3.796	1.689	1	1.689	1.261	1	1.261	-	-	-	1.261	1	1.261
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.796	-	-	1.689	-	-	1.261	-	-	-	-	-	1.261
<i>Subtotal: Hardware - Communications and Information Technology Cost</i>	-	-	-	-	-	3.796	-	-	1.689	-	-	1.261	-	-	-	-	-	1.261
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	3.796	-	-	1.689	-	-	1.261	-	-	-	-	-	1.261

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Tactical Data Networks Enterprise

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	1	1	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.407	4.213	39.890	-	39.890
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.407	4.213	39.890	-	39.890
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.407</b>	<b>4.213</b>	<b>39.890</b>	-	<b>39.890</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	2.407	4.213	39.890	-	39.890

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware - TDL - PAM Cost</b>																		
Non Recurring Cost																		
64281F <sup>(†)</sup>	-	-	-	2.407	1	2.407	4.213	1	4.213	0.000	1	0.000	-	-	-	0.000	1	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	2.407	-	-	4.213	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - TDL - PAM Cost</i>	-	-	-	-	-	<b>2.407</b>	-	-	<b>4.213</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Hardware - HCB - GEP Cost</b>																		
Non Recurring Cost																		
64281F <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	39.890	1	39.890	-	-	-	39.890	1	39.890
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	39.890	-	-	-	-	-	39.890
<i>Subtotal: Hardware - HCB - GEP Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>39.890</b>	-	-	-	-	-	<b>39.890</b>
<b>Gross/Weapon System Cost</b>	-	-	-	<b>2.407</b>	<b>1</b>	<b>2.407</b>	<b>4.213</b>	<b>1</b>	<b>4.213</b>	<b>39.890</b>	<b>1</b>	<b>39.890</b>	-	-	-	<b>39.890</b>	<b>1</b>	<b>39.890</b>

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Tactical Data Networks Enterprise
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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
64281F <sup>(†)</sup>		2023	Various / Various	Various	AFLCMC Hanscom AFB	Jan 2023	Jan 2023	1	39.890	Y		
64281F <sup>(†)</sup>		2023	Various / Various	Various	AFLCMC Hanscom AFB	Jan 2023	Jan 2023	1	39.890	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Tactical Data Networks Enterprise
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
64281F																														0	
1	2023	AF		1	0	1																									0
64281F																														0	
2	2023	AF		1	0	1																									0
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Tactical Data Networks Enterprise
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	0	0	0	0	0	1	4	0	4
2	Various - Various	1	1	1	0	0	0	0	0	1	4	0	4

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Logistics Support Activities

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	1.491	1.504	2.018	-	2.018
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1.491	1.504	2.018	-	2.018
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>1.491</b>	<b>1.504</b>	<b>2.018</b>	-	<b>2.018</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Software - Logistics Support Activities Cost																		
Recurring Cost																		
Software	-	-	-	1.491	1	1.491	1.504	1	1.504	2.018	1	2.018	-	-	-	2.018	1	2.018
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.491	-	-	1.504	-	-	2.018	-	-	-	-	-	2.018
<i>Subtotal: Software - Logistics Support Activities Cost</i>	-	-	-	-	-	1.491	-	-	1.504	-	-	2.018	-	-	-	-	-	2.018
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	1.491	-	-	1.504	-	-	2.018	-	-	-	-	-	2.018

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> AF LVC Operational Training (LVC-OT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	3.354	11.858	20.547	-	20.547
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	3.354	11.858	20.547	-	20.547
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>3.354</b>	<b>11.858</b>	<b>20.547</b>	-	<b>20.547</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - AF LVC Operational Training LVC-OT Cost</b>																		
Non Recurring Cost																		
Operations Center Equipment	-	-	-	-	-	3.354	-	-	11.858	-	-	4.100	-	-	-	-	-	4.100
Mission Brief System Equipment	-	-	-	-	-	-	-	-	-	-	-	13.617	-	-	-	-	-	13.617
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	3.354	-	-	11.858	-	-	17.717	-	-	-	-	-	17.717
<i>Subtotal: Hardware - AF LVC Operational Training LVC-OT Cost</i>	-	-	-	-	-	<b>3.354</b>	-	-	<b>11.858</b>	-	-	<b>17.717</b>	-	-	-	-	-	<b>17.717</b>
<b>Support - AF LVC Operational Training (LVC-OT) Cost</b>																		
Operations Center Installation Services	-	-	-	-	-	-	-	-	-	-	-	2.830	-	-	-	-	-	2.830
<i>Subtotal: Support - AF LVC Operational Training (LVC-OT) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>2.830</b>	-	-	-	-	-	<b>2.830</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>3.354</b>	-	-	<b>11.858</b>	-	-	<b>20.547</b>	-	-	-	-	-	<b>20.547</b>

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**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Recruit Training Units
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.629	0.664	0.803	-	0.803
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.629	0.664	0.803	-	0.803
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.629</b>	<b>0.664</b>	<b>0.803</b>	-	<b>0.803</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Recruit Training Units Cost																		
Recurring Cost																		
Recruit Training Units	-	-	-	0.629	1	0.629	0.664	1	0.664	0.803	1	0.803	-	-	-	0.803	1	0.803
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.629	-	-	0.664	-	-	0.803	-	-	-	-	-	0.803
<i>Subtotal: Hardware - Recruit Training Units Cost</i>	-	-	-	-	-	0.629	-	-	0.664	-	-	0.803	-	-	-	-	-	0.803
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.629	-	-	0.664	-	-	0.803	-	-	-	-	-	0.803

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Service Academies

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	1.498	1.387	2.333	-	2.333
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	1.498	1.387	2.333	-	2.333
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>1.498</b>	<b>1.387</b>	<b>2.333</b>	-	<b>2.333</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
<b>Hardware - Service Academies Cost</b>																		
<b>Non Recurring Cost</b>																		
USAFA WIFI Expansion <sup>(†)</sup>	-	-	-	1.498	1	1.498	1.387	1	1.387	2.333	1	2.333	-	-	-	2.333	1	2.333
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	1.498	-	-	1.387	-	-	2.333	-	-	-	-	-	2.333
<i>Subtotal: Hardware - Service Academies Cost</i>	-	-	-	-	-	1.498	-	-	1.387	-	-	2.333	-	-	-	-	-	2.333
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	1.498	-	-	1.387	-	-	2.333	-	-	-	-	-	2.333

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Service Academies
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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
USAFA WIFI Expansion		2021	TELOS / USAFA	C / FFP	USAFA	Jan 2022	Feb 2022	1	1.498	Y		Dec 2020
USAFA WIFI Expansion		2022	TELOS / USAFA	C / FFP	USAFA	Sep 2022	Sep 2022	1	1.387	Y		Dec 2021
USAFA WIFI Expansion <sup>(†)</sup>		2023	TBD / USAFA	TBD	USAFA	Sep 2023	Sep 2023	1	2.333	Y		

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Service Academies
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C #	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
USAFA WIFI Expansion																															
	1	2023	AF	1	0	1																								A1	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Service Academies
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - USAFA	1	1	1	0	0	0	0	0	1	12	0	12

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



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**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> General Skill Training
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.684	0.444	0.663	-	0.663
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.684	0.444	0.663	-	0.663
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.684</b>	<b>0.444</b>	<b>0.663</b>	-	<b>0.663</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Software - General Skill Training Cost																		
Recurring Cost																		
General Skill Training	-	-	-	0.684	1	0.684	0.444	1	0.444	0.663	1	0.663	-	-	-	0.663	1	0.663
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>0.684</i>	-	-	<i>0.444</i>	-	-	<i>0.663</i>	-	-	-	-	-	<i>0.663</i>
<i>Subtotal: Software - General Skill Training Cost</i>	-	-	-	-	-	<i>0.684</i>	-	-	<i>0.444</i>	-	-	<i>0.663</i>	-	-	-	-	-	<i>0.663</i>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>0.684</b>	-	-	<b>0.444</b>	-	-	<b>0.663</b>	-	-	-	-	-	<b>0.663</b>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Professional Military Education

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	8	-	8
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.398	0.888	0.965	-	0.965
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.398	0.888	0.965	-	0.965
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.398</b>	<b>0.888</b>	<b>0.965</b>	-	<b>0.965</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	0.121	-	0.121

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware - Professional Military Education Cost</b>																		
<b>Recurring Cost</b>																		
IT System <sup>(†)</sup>	-	-	-	0.080	5	0.398	0.178	5	0.888	0.121	8	0.965	-	-	-	0.121	8	0.965
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.398	-	-	0.888	-	-	0.965	-	-	-	-	-	0.965
<i>Subtotal: Hardware - Professional Military Education Cost</i>	-	-	-	-	-	<b>0.398</b>	-	-	<b>0.888</b>	-	-	<b>0.965</b>	-	-	-	-	-	<b>0.965</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>0.398</b>	-	-	<b>0.888</b>	<b>0.121</b>	<b>8</b>	<b>0.965</b>	-	-	-	<b>0.121</b>	<b>8</b>	<b>0.965</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Professional Military Education
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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
IT System		2021	Various / Various	C / CPFF	AFLCMC/WW - Fighter/Bomber	Jan 2021	Apr 2021	5	0.080	Y		
IT System		2022	Various / Various	C / CPFF	AFLCMC/WW - Fighter/Bomber	Jan 2022	Apr 2022	5	0.178	Y		
IT System <sup>(†)</sup>		2023	Various / Various	C / CPFF	AFLCMC/WW - Fighter/Bomber	Jan 2023	Apr 2023	8	0.121	Y		

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Professional Military Education
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
IT System																																			
	1	2023	AF		8	0	8																							8					

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Professional Military Education
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
IT System																															
	1	2023	AF	8	0	8				A	-	-	-	1															7		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Professional Military Education
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	0	0	0	0	0	1	4	3	7

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

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**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Other Professional Education
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.482	0.430	0.467	-	0.467
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.482	0.430	0.467	-	0.467
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>0.482</b>	<b>0.430</b>	<b>0.467</b>	-	<b>0.467</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Software - Other Professional Education Cost																		
Recurring Cost																		
Software <sup>(t)</sup>	-	-	-	-	-	0.482	0.430	1	0.430	0.467	1	0.467	-	-	-	0.467	1	0.467
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.482	-	-	0.430	-	-	0.467	-	-	-	-	-	0.467
<i>Subtotal: Software - Other Professional Education Cost</i>	-	-	-	-	-	0.482	-	-	0.430	-	-	0.467	-	-	-	-	-	0.467
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.482	-	-	0.430	-	-	0.467	-	-	-	-	-	0.467

<sup>(t)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Other Professional Education
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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
Software <sup>(†)</sup>		2022	Various / USAF	Various	Hanscom AFB	Jan 2022	Jan 2022	1	0.430	Y		Nov 2021
Software <sup>(†)</sup>		2023	TBD / USAF	Various	Hanscom AFB	Jan 2023	Jan 2023	1	0.467	Y		Nov 2022

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



**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Other Professional Education
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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
Software																															
	1	2022	AF	1	0	1									A1														0		
	2	2023	AF	1	0	1																					A1		0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Other Professional Education
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - USAF				0	0	0	0	0	0	0	0	0
2	TBD - USAF	1	2	3	0	0	0	0	1	4	0	4	4

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

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Item Number / Title [DODIC]:</b> Financial Management Information Systems Development

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )		-	1	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )		-	0.694	0.000	0.000	-	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )		-	0.694	0.000	0.000	-	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )		-	<b>0.694</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )		-	0.694	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Software - Financial Management Information Systems Development Cost																		
Non Recurring Cost																		
Software Licenses <sup>(†)</sup>	-	-	-	0.694	1	0.694	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.694	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Software - Financial Management Information Systems Development Cost</i>	-	-	-	-	-	0.694	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	0.694	1	0.694	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology				<b>Item Number / Title [DODIC]:</b> Financial Management Information Systems Development					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Software Licenses <sup>(†)</sup>		2021	Various / Hanscom AFB	C / FFP	Hanscom AFB	May 2021	Oct 2021	1	0.694	Y		Apr 2021

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
		<b>Item Number / Title [DODIC]:</b> Financial Management Information Systems Development

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			

Software Licenses																													
1	2021	AF		1	0	1																							0

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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
		<b>Item Number / Title [DODIC]:</b> Financial Management Information Systems Development

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Hanscom AFB	1	1	100	1	8	5	13	0	0	0	0

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.602	0.414	2.487	-	2.487	2.575	5.182	5.326	5.433	-	24.019
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.602	0.414	2.487	-	2.487	2.575	5.182	5.326	5.433	-	24.019
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.602</b>	<b>0.414</b>	<b>2.487</b>	-	<b>2.487</b>	<b>2.575</b>	<b>5.182</b>	<b>5.326</b>	<b>5.433</b>	-	<b>24.019</b>

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

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

**Description:**

GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): The GCCS-AF program provides the common AF infrastructure hardware and software necessary to pass AF command and control (C2) data among commands, their components, and the joint GCCS. This program procures GCCS components which include, 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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Global Command and Control System	P-5a, P-21	A		- / -	- / 2.602	- / 0.414	- / 2.487	- / -	- / 2.487
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 2.602</b>	<b>- / 0.414</b>	<b>- / 2.487</b>	<b>- / -</b>	<b>- / 2.487</b>

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

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

**Justification:**  
 GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): FY23 procurement funding will begin a multi-year replacement of hardware servers needed to support the DISA-J version 6.100 capability release.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834040 / Af Global Command & Control Sys	<b>Item Number / Title [DODIC]:</b> Global Command and Control System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	2.602	0.414	2.487	-	2.487
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	2.602	0.414	2.487	-	2.487
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>2.602</b>	<b>0.414</b>	<b>2.487</b>	-	<b>2.487</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Global Command and Control System Cost																		
Recurring Cost																		
GCCS-AF SERVER REPLACEMENT <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.033	21	0.693	-	-	-	0.033	21	0.693
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.693	-	-	-	-	-	0.693
<i>Subtotal: Hardware - Global Command and Control System Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>0.693</b>	-	-	-	-	-	<b>0.693</b>
Support - Global Command and Control System Cost																		
PSC Contractor Services	-	-	-	-	-	2.492	-	-	0.404	-	-	1.684	-	-	-	-	-	1.684
PSC Other Government Costs	-	-	-	-	-	0.110	-	-	0.010	-	-	0.110	-	-	-	-	-	0.110
<i>Subtotal: Support - Global Command and Control System Cost</i>	-	-	-	-	-	<b>2.602</b>	-	-	<b>0.414</b>	-	-	<b>1.794</b>	-	-	-	-	-	<b>1.794</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>2.602</b>	-	-	<b>0.414</b>	-	-	<b>2.487</b>	-	-	-	-	-	<b>2.487</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834040 / Af Global Command & Control Sys					<b>Item Number / Title [DODIC]:</b> Global Command and Control System				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
GCCS-AF SERVER REPLACEMENT <sup>(†)</sup>		2023	TBD / HANSCOM AFB	C / FFP	AFLCMC Hanscom AFB	Apr 2023	May 2023	21	0.033	Y		Feb 2023

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834040 / Af Global Command & Control Sys	<b>Item Number / Title [DODIC]:</b> Global Command and Control System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024															
							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			
GCCS-AF SERVER REPLACEMENT																																		
	1	2023	AF		21	0	21													A -	21													0
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834040 / Af Global Command & Control Sys	<b>Item Number / Title [DODIC]:</b> Global Command and Control System
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - HANSCOM AFB			21	0	7	1	8	0	0	0	0

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

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	<b>P-1 Line Item Number / Title:</b> 834050 / Battlefield Airborne Communication Node (BACN)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	32.807	-	32.807	0.000	114.614	45.916	46.820	-	240.157
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	32.807	-	32.807	0.000	114.614	45.916	46.820	-	240.157
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>32.807</b>	-	<b>32.807</b>	<b>0.000</b>	<b>114.614</b>	<b>45.916</b>	<b>46.820</b>	-	<b>240.157</b>

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

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

**Description:**

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.

The BACN airborne 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).

Battlefield Airborne Communication Node (BACN) Rapidly Deployable - Payload Control Element procurement effort is a new start for FY23.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 Communication 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Battlefield Abn Comm Node (BACN)	P-5a, P-21	A		- / -	- / 0.000	- / 0.000	- / 32.807	- / -	- / 32.807
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 32.807</b>	<b>- / -</b>	<b>- / 32.807</b>

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

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

**Justification:**  
 This effort procures a Rapidly Deployable Payload Control Element (RD-PCE) any additional equipment required to support and secure BACN Payload control operational requirements. The RD-PCE combines/ provides the same Payload Control Element - Launch (PCE-L) and Payload Control Element - Mission (PCE-M) functionality but in a lightweight, transportable, rapidly deployable configuration designed to meet the worldwide deployability anytime anywhere needs of Combatant Commanders.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834050 / Battlefield Airborne Communication Node (BACN)	<b>Item Number / Title [DODIC]:</b> Battlefield Abn Comm Node (BACN)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	32.807	-	32.807
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	32.807	-	32.807
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>32.807</b>	-	<b>32.807</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware - Battlefield Airborne Control Node (BACN) Cost</b>																		
Non Recurring Cost																		
Rapidly Deployable Payload Control Element <sup>(†)</sup>	-	-	-	-	-	0.000	-	-	0.000	4.112	7	28.784	-	-	-	4.112	7	28.784
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	28.784	-	-	-	-	-	28.784
<i>Subtotal: Hardware - Battlefield Airborne Control Node (BACN) Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	28.784	-	-	-	-	-	28.784
<b>Support - Battlefield Abn Comm Node (BACN) Cost</b>																		
Rapidly Deployable Payload Control Element	-	-	-	-	-	-	-	-	-	4.023	1	4.023	-	-	-	4.023	1	4.023
<i>Subtotal: Support - Battlefield Abn Comm Node (BACN) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.023	-	-	-	-	-	4.023
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	-	-	32.807	-	-	-	-	-	32.807

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834050 / Battlefield Airborne Communication Node (BACN)	<b>Item Number / Title [DODIC]:</b> Battlefield Abn Comm Node (BACN)
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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
Rapidly Deployable Payload Control Element <sup>(†)</sup>		2023	TBD / TBD	TBD	Hanscom AFB	Dec 2022	Apr 2023	7	4.112	Y		

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



**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834050 / Battlefield Airborne Communication Node (BACN)	<b>Item Number / Title [DODIC]:</b> Battlefield Abn Comm Node (BACN)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Rapidly Deployable Payload Control Element																															
1		2023	AF	7	0	7			A	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	1	1	1	0		

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834050 / Battlefield Airborne Communication Node (BACN)	<b>Item Number / Title [DODIC]:</b> Battlefield Abn Comm Node (BACN)
---	---	---

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	1	1	7	1	3	4	7	0	0	0	0

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	10.541	10.619	10.210	-	10.210	10.542	11.399	11.719	11.948	-	76.978
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	10.541	10.619	10.210	-	10.210	10.542	11.399	11.719	11.948	-	76.978
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>10.541</b>	<b>10.619</b>	<b>10.210</b>	-	<b>10.210</b>	<b>10.542</b>	<b>11.399</b>	<b>11.719</b>	<b>11.948</b>	-	<b>76.978</b>

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

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

**Description:**

PE 0401840F AMC Command and Control System - P-40

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 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 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	AMC COMMAND AND CONTROL SYSTEM	P-5a, P-21	A		- / -	- / 10.541	- / 10.619	- / 10.210	- / -	- / 10.210
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 10.541</b>	<b>- / 10.619</b>	<b>- / 10.210</b>	<b>- / -</b>	<b>- / 10.210</b>

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

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

**Justification:**  
 PE 0401840F AMC Command and Control System - P-40

MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: FY23 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.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834070 / Mobility Command And Control	<b>Item Number / Title [DODIC]:</b> AMC COMMAND AND CONTROL SYSTEM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	10.541	10.619	10.210	-	10.210
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	10.541	10.619	10.210	-	10.210
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>10.541</b>	<b>10.619</b>	<b>10.210</b>	-	<b>10.210</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - AMC COMMAND AND CONTROL SYSTEM Cost</b>																		
<b>Recurring Cost</b>																		
Servers <sup>(†)</sup>	-	-	-	10.541	1	10.541	10.619	1	10.619	10.210	1	10.210	-	-	-	10.210	1	10.210
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	10.541	-	-	10.619	-	-	10.210	-	-	-	-	-	10.210
<i>Subtotal: Hardware - AMC COMMAND AND CONTROL SYSTEM Cost</i>	-	-	-	-	-	10.541	-	-	10.619	-	-	10.210	-	-	-	-	-	10.210
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	10.541	-	-	10.619	-	-	10.210	-	-	-	-	-	10.210

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834070 / Mobility Command And Control				<b>Item Number / Title [DODIC]:</b> AMC COMMAND AND CONTROL SYSTEM					

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
Servers <sup>(†)</sup>		2021	GSA / AMC	SS / Various	AMC	Oct 2020	Jan 2021	1	10.541	Y		
Servers <sup>(†)</sup>		2022	GSA / AMC	SS / Various	AMC	Oct 2021	Jan 2022	1	10.619	Y		
Servers <sup>(†)</sup>		2023	GSA / AMC	SS / Various	AMC	Oct 2022	Jan 2023	1	10.210	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834070 / Mobility Command And Control										<b>Item Number / Title [DODIC]:</b> AMC COMMAND AND CONTROL SYSTEM									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Servers																																			
	1	2021	AF	1	0	1	A	-	-	-	1																		0						
	1	2022	AF	1	0	1														A	-	-	-	1					0						
	1	2023	AF	1	0	1																							1						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834070 / Mobility Command And Control										<b>Item Number / Title [DODIC]:</b> AMC COMMAND AND CONTROL SYSTEM									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Servers																																	
1		2021	AF	1	1	0																							0				
1		2022	AF	1	1	0																							0				
1		2023	AF	1	0	1	A	-	-	-	1																		0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834070 / Mobility Command And Control
		<b>Item Number / Title [DODIC]:</b> AMC COMMAND AND CONTROL SYSTEM

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	GSA - AMC	1	1	1	1	1	3	4	0	0	0	0

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207589F, 0603287F, 0604287F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	543.477	139.649	101.896	89.484	-	89.484	131.957	149.742	154.401	121.356	-	1,431.962
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	543.477	139.649	101.896	89.484	-	89.484	131.957	149.742	154.401	121.356	-	1,431.962
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>543.477</b>	<b>139.649</b>	<b>101.896</b>	<b>89.484</b>	<b>-</b>	<b>89.484</b>	<b>131.957</b>	<b>149.742</b>	<b>154.401</b>	<b>121.356</b>	<b>-</b>	<b>1,431.962</b>

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

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

**Description:**

The Air 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 the purpose of delivering modern, innovative, and secure base defense solutions to protect our Nation's critical warfighting assets. Modernization will provide a next generation platform, secure cloud computing infrastructure, and a tactical network with leading edge communications providing a more flexible, easier to evolve and operate, and secure force protection platform.

FY22 funding totals include 22.228M requested for Over-the-Horizon and/or Enduring Requirements. FY23 funding totals include 28.436M requested for Over-The-Horizon and/or Enduring Requirements.

AFPSS encompasses the following PEs:

PE 0101110F- Intrusion Detection System & CCTV for 6 MILCON & 1 FSRM projects. \$2.456 need in FY23.

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 0101233F - GBSD SQUADRONS funds security systems and equipment for new facilities to include but not limited to intrusion detection sensors, alarm annunciators, and surveillance systems required for Special Access Programs facilities.

PE 0207522F - AIRBASE AIR DEFENSE SYSTEMS (ABADS) 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, and contingency and non-contingency locations worldwide.

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 Program Element Code (PEC) procures

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207589F, 0603287F, 0604287F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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) Integrated Base Defense Security System (IBDSS) programs and various acquisition blocks. These activities reduce the risk to AF personnel, nuclear (PL-1N) and non-nuclear (PL-1 thru PL-4) assets, (weapon systems, aircraft, command &amp; 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, the Aerospace Expeditionary Force concept and DOD Nuclear Weapons Security Standard, where applicable. 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 &amp; communication (C3) platform &amp; 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 2023 Air Force **Date:** April 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:** 0207589F, 0603287F, 0604287F

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	B-21 Raider	P-5a, P-21	A		- / -	- / 0.000	- / 0.000	1 / 2.487	- / -	1 / 2.487
P-5	GBSD Squadrons	P-5a, P-21	A		- / -	- / 0.000	- / 0.000	- / 2.839	- / -	- / 2.839
P-5	Airbase Air Defense Systems (ABADS)	P-5a, P-21	A		- / -	3 / 51.512	9 / 27.186	9 / 23.911	- / -	9 / 23.911
P-5	Air Base Ground Defense	P-5a, P-21	A		- / -	- / 50.660	- / 29.898	- / 10.877	- / -	- / 10.877
P-3a	4 / IBDSS-2 (Capability Improvement)		A		- / 78.953	- / 37.477	- / 44.812	- / 0.000	- / 0.000	- / 0.000
P-3a	5 / IBDSS-3 (Capability Improvement)		A		- / -	- / -	- / -	- / 49.370	- / 0.000	- / 49.370
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 543.477</b>	<b>- / 139.649</b>	<b>- / 101.896</b>	<b>- / 89.484</b>	<b>- / -</b>	<b>- / 89.484</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B-21 Raider	P-5a, P-21	A		- / -	- / -	- / -	- / -	- / -	- / -
P-5	GBSD Squadrons	P-5a, P-21	A		- / -	- / -	- / -	- / -	- / -	- / -
P-5	Airbase Air Defense Systems (ABADS)	P-5a, P-21	A		- / -	- / -	- / -	- / -	- / -	- / -
P-5	Air Base Ground Defense	P-5a, P-21	A		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	4 / IBDSS-2 (Capability Improvement)		A		- / 0.000	- / -	- / -	- / -	- / -	- / 161.242
P-3a	5 / IBDSS-3 (Capability Improvement)		A		- / 83.386	- / 97.102	- / -	- / -	- / -	- / 229.858
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 131.957</b>	<b>- / 149.742</b>	<b>- / 154.401</b>	<b>- / 121.356</b>	<b>- / -</b>	<b>- / 1,431.962</b>

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

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

**Justification:**

This program, PE 0101110F P-5, is a new start.

PE 0101110F B-21 Raider  
FY23 funding will procure an Electronic Security System.

PE 0101122F AIR LAUNCHED CRUISE MISSILE (ALCM) Security Systems  
No FY23 funding requested.

PE 0101213F MINUTEMAN SQUADRONS  
No FY23 funding requested.

PE 0101233F - GBSD SQUADRONS funds security systems and equipment for new facilities to include but not limited to intrusion detection sensors, alarm annunciators, and surveillance systems required for Special Access Programs facilities. The physical security system is critical for the deployment of the GBSD facilities to meet nuclear certification.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207589F, 0603287F, 0604287F
<b>Line Item MDAP/MAIS Code:</b> N/A		

**PE 0207522F AIRBASE AIR DEFENSE SYSTEMS (ABADS)**

FY2023 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) interoperability, 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)**

FY2023 funding to AFMC / Air Force Tactical Security Equipment will provide support and procurement for Ground-Based Operational Surveillance System (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. FY2023 funding to Installation Mission and Support Center (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. FY2023 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. FY2023 funding for Security Force Command and Control (C2) Equipment will be used to procure a Base Defense Operations Center and communications equipment to support security forces deployed OCONUS.

**PE 0207589F BASE PHYSICAL SECURITY SYSTEMS (BPSS)**

FY2023 Integrated Base Defense Security System (IBDSS-3)funding will support force protection installs of Weapons Generation Facilities, Weapon Storage Areas of nuclear (PL-1N), and non-nuclear (PL-14) assets(weapon systems, aircraft, command & control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally and Interim Contractor Support at AF bases.

**Efforts with funding starting in FY 2024 through FY 2027 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:**

- (a) FY 2024 Cost Delta: 48.571 million
- (b) FY 2025 Cost Delta: 52.640 million
- (c) FY 2026 Cost Delta: 56.267 million
- (d) FY 2027 Cost Delta: 57.397 million
- (e) FY Total Cost Delta: 414.245 million

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> B-21 Raider

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	2.487	-	2.487
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	2.487	-	2.487
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>2.487</b>	-	<b>2.487</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	2.487	-	2.487

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - B-21 Raider Cost																		
Recurring Cost																		
Electronic Security System <sup>(†)</sup>	-	-	-	-	-	0.000	-	-	0.000	2.487	1	2.487	-	-	-	2.487	1	2.487
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	2.487	-	-	-	-	-	2.487
<i>Subtotal: Hardware - B-21 Raider Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	2.487	-	-	-	-	-	2.487
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	2.487	1	2.487	-	-	-	2.487	1	2.487

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> B-21 Raider
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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
Electronic Security System <sup>(†)</sup>		2023	TBD / TBD	TBD	AFGSC	Mar 2023	Aug 2023	1	2.487	Y		Jan 2023

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> B-21 Raider
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Electronic Security System																															
1		2023	AF	1	0	1																								0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> B-21 Raider
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	1	1	20	0	6	5	11	0	0	0	0

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> GBSD Squadrons

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	2.839	-	2.839
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	2.839	-	2.839
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>2.839</b>	-	<b>2.839</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - GBSD Squadrons Cost																		
Recurring Cost																		
Facility Security Equipment <sup>(t)</sup>	-	-	-	-	-	0.000	-	-	0.000	2.839	1	2.839	-	-	-	2.839	1	2.839
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	2.839	-	-	-	-	-	2.839
<i>Subtotal: Hardware - GBSD Squadrons Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	2.839	-	-	-	-	-	2.839
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	-	-	2.839	-	-	-	-	-	2.839

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> GBSD Squadrons
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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
Facility Security Equipment <sup>(†)</sup>		2023	TBD / TBD	TBD	Hanscom AFB	Jan 2023	Aug 2023	1	2.839	Y		Nov 2022

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> GBSD Squadrons
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Facility Security Equipment																															
	1	2023	AF	1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> GBSD Squadrons
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	1	1	100	1	4	7	11	0	0	0	0

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Airbase Air Defense Systems (ABADS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	3	9	9	-	9
Gross/Weapon System Cost (\$ in Millions)	-	51.512	27.186	23.911	-	23.911
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	51.512	27.186	23.911	-	23.911
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>51.512</b>	<b>27.186</b>	<b>23.911</b>	-	<b>23.911</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	17.171	3.021	2.657	-	2.657

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - AIRBASE AIR DFENSE SYSTEM (ABADS) Cost</b>																		
Recurring Cost																		
ABADS <sup>(t)</sup>	-	-	-	2.033	3	6.098	1.696	9	15.268	1.413	9	12.721	-	-	-	1.413	9	12.721
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.098	-	-	15.268	-	-	12.721	-	-	-	-	-	12.721
<i>Subtotal: Hardware - AIRBASE AIR DFENSE SYSTEM (ABADS) Cost</i>	-	-	-	-	-	<b>6.098</b>	-	-	<b>15.268</b>	-	-	<b>12.721</b>	-	-	-	-	-	<b>12.721</b>
<b>Hardware - Airbase Air Defense Systems (ABADS) OCO Cost</b>																		
Non Recurring Cost																		
ABADS OCO	-	-	-	42.404	1	42.404	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	42.404	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Airbase Air Defense Systems (ABADS) OCO Cost</i>	-	-	-	-	-	<b>42.404</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - AIRBASE AIR DFENSE SYSTEM (ABADS) Cost</b>																		
Program Support Costs	-	-	-	-	-	3.010	-	-	11.918	-	-	11.190	-	-	-	-	-	11.190
<i>Subtotal: Support - AIRBASE AIR DFENSE SYSTEM (ABADS) Cost</i>	-	-	-	-	-	<b>3.010</b>	-	-	<b>11.918</b>	-	-	<b>11.190</b>	-	-	-	-	-	<b>11.190</b>
<b>Gross/Weapon System Cost</b>	-	-	-	<b>17.171</b>	<b>3</b>	<b>51.512</b>	<b>3.021</b>	<b>9</b>	<b>27.186</b>	<b>2.657</b>	<b>9</b>	<b>23.911</b>	-	-	-	<b>2.657</b>	<b>9</b>	<b>23.911</b>

<sup>(t)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Airbase Air Defense Systems (ABADS)
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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
ABADS <sup>(†)</sup>		2021	Various / Various	Various	Hanscom AFB	Mar 2022	Jul 2022	3	2.033	Y		
ABADS <sup>(†)</sup>		2022	Various / Various	Various	Hanscom AFB	Mar 2022	Jul 2022	9	1.696	Y		
ABADS <sup>(†)</sup>		2023	Various / Various	Various	Hanscom AFB	Mar 2023	Sep 2023	9	1.413	Y		

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Item Number / Title [DODIC]:** Airbase Air Defense Systems (ABADS)

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2022													Fiscal Year 2023													BALANCE
O C C #	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			
ABADS																																	
1		2021	AF	3	0	3																							0				
1		2022	AF	9	0	9																							0				
1		2023	AF	9	0	9																							8				
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Airbase Air Defense Systems (ABADS)
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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					
ABADS																																			
1		2021	AF	3	3	0																							0						
1		2022	AF	9	9	0																							0						
1		2023	AF	9	1	8	1	1	1	1	1	1	1																0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Airbase Air Defense Systems (ABADS)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	4	34	1	6	6	12	0	0	0	0

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Air Base Ground Defense

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	50.660	29.898	10.877	-	10.877
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	50.660	29.898	10.877	-	10.877
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>50.660</b>	<b>29.898</b>	<b>10.877</b>	-	<b>10.877</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - ABGD Cost</b>																		
Recurring Cost																		
Air Force Tactical Security Equipment <sup>(†)</sup>	-	-	-	0.122	1	0.122	4.821	1	4.821	4.155	1	4.155	-	-	-	4.155	1	4.155
EDI <sup>(†)</sup>	-	-	-	-	-	-	0.023	797	18.134	-	-	0.000	-	-	-	-	-	0.000
Log Det <sup>(†)</sup>	-	-	-	14.092	1	14.092	3.368	2	6.736	2.014	3	6.042	-	-	-	2.014	3	6.042
Disaster Relief <sup>(†)</sup>	-	-	-	36.446	1	36.446	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	50.660	-	-	29.691	-	-	10.197	-	-	-	-	-	10.197
<i>Subtotal: Hardware - ABGD Cost</i>	-	-	-	-	-	<b>50.660</b>	-	-	<b>29.691</b>	-	-	<b>10.197</b>	-	-	-	-	-	<b>10.197</b>
<b>Support - ABGD Cost</b>																		
Program Support Costs (Air Force Tactical Security Equipment)	-	-	-	-	-	0.000	-	-	0.207	-	-	0.680	-	-	-	-	-	0.680
<i>Subtotal: Support - ABGD Cost</i>	-	-	-	-	-	<b>0.000</b>	-	-	<b>0.207</b>	-	-	<b>0.680</b>	-	-	-	-	-	<b>0.680</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>50.660</b>	-	-	<b>29.898</b>	-	-	<b>10.877</b>	-	-	-	-	-	<b>10.877</b>

**Remarks:**

Air Base Ground Defense: These funds will be used to procure tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for] wheeled tactical [non-tactical], armored

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Air Base Ground Defense
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	
<p>[un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment. Additionally, ABGD will procure all required Technology Integration Management (TIM) and associated integration and interoperability efforts.</p> <p>(t) indicates the presence of a P-5a</p>		

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Air Base Ground Defense
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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
Air Force Tactical Security Equipment <sup>(†)</sup>		2021	Various / Various	Various	Hanscom AFB	Aug 2021	Sep 2022	1	0.122	Y		
Air Force Tactical Security Equipment <sup>(†)</sup>		2022	Various / Various	Various	Hanscom AFB	Oct 2022	Nov 2022	1	4.821	Y		
Air Force Tactical Security Equipment <sup>(†)</sup>		2023	Various / Various	Various	Hanscom AFB	Feb 2023	Mar 2024	1	4.155	Y		
EDI <sup>(†)</sup>		2022	DLA/AGL / West End	Various	USAFE	Jan 2022	Apr 2022	797	0.023	Y		Dec 2021
Log Det <sup>(†)</sup>		2021	Various / Various	MIPR	AFSFC	Jan 2021	Mar 2021	1	14.092	Y		Jan 2021
Log Det <sup>(†)</sup>		2022	Various / Various	Various	AFSFC	Jan 2022	Mar 2022	2	3.368	Y		
Log Det <sup>(†)</sup>		2023	DLA/AGL / West End	MIPR	AFSFC	Jan 2023	Mar 2023	3	2.014	Y		Dec 2022
Disaster Relief <sup>(†)</sup>		2021	Various / Various	Various	ACC	Jan 2021	Apr 2021	1	36.446	Y		Dec 2020

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

**Remarks:**

Air Base Ground Defense/EDI: These funds will be used to procure tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for] wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment. Additionally, ABGD will procure all required Technology Integration Management (TIM) and associated integration and interoperability efforts.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Item Number / Title [DODIC]:** Air Base Ground Defense

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022										B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022													
							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			
<b>Air Force Tactical Security Equipment</b>																																		
	1	2021	AF	1	0	1																									1	0		
	1	2022	AF	1	0	1																										1		
	1	2023	AF	1	0	1																										1		
<b>EDI</b>																																		
	2	2022	AF	797	0	797																										0		
<b>Log Det</b>																																		
	3	2021	AF	1	0	1																										0		
	3	2022	AF	2	0	2																										0		
	4	2023	AF	3	0	3																										3		
<b>Disaster Relief</b>																																		
	5	2021	AF	1	0	1																										0		

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Air Base Ground Defense
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Air Force Tactical Security Equipment																																	
	1	2021	AF	1	1	0																								0			
	1	2022	AF	1	0	1	A -	1																						0			
	1	2023	AF	1	0	1																								0			
EDI																																	
	2	2022	AF	797	797	0																								0			
Log Det																																	
	3	2021	AF	1	1	0																								0			
	3	2022	AF	2	2	0																								0			
	4	2023	AF	3	0	3																								0			
Disaster Relief																																	
	5	2021	AF	1	1	0																								0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Item Number / Title [DODIC]:</b> Air Base Ground Defense
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	100	1	5	13	18	0	0	0	0
2	DLA/AGL - West End	1	1	1,000	1	4	3	7	0	0	0	0
3	Various - Various				0	0	0	0	0	0	0	0
4	DLA/AGL - West End	1	1	100	1	4	2	6	0	0	0	0
5	Various - Various	1	1	100	1	4	3	7	0	0	0	0

**Remarks:**  
Air Base Ground Defense/EDI: These funds will be used to procure tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for] wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment. Additionally, ABGD will procure all required Technology Integration Management (TIM) and associated integration and interoperability efforts.

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

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 4 / IBDSS-2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	78.953	37.477	44.812	0.000	0.000	0.000	0.000	-	-	-	-	161.242
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	78.953	37.477	44.812	0.000	0.000	0.000	0.000	-	-	-	-	161.242
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>78.953</b>	<b>37.477</b>	<b>44.812</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	-	-	-	<b>161.242</b>

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

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

**Description:**

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.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4					<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System					<b>Modification Number / Title:</b> 4 / IBDSS-2			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Bases				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0603287F, 0604287F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> IBDSS-2													
B Kits													
Recurring													
IBDSS-2:EQUIPMENT Group B (Active)	7 / 17.379	4 / 11.188	7 / 13.686	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 42.253	
<i>Subtotal: Recurring</i>	- / 17.379	- / 11.188	- / 13.686	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.253	
<i>Subtotal: IBDSS-2</i>	- / 17.379	- / 11.188	- / 13.686	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.253	
<i>Subtotal: Procurement, All Modification Items</i>	- / 17.379	- / 11.188	- / 13.686	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.253	
<b>Support (All Modification Items)</b>													
A&AS	- / 11.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.837	
PMA - Other Gov't Costs	- / 4.602	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.602	
ICS-Labor	- / 0.283	- / 1.881	- / 1.117	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.281	
<i>Subtotal: Support</i>	- / 16.722	- / 1.881	- / 1.117	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.720	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> IBDSS-2	7 / 44.852	4 / 24.408	7 / 30.009	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 99.269	
<i>Subtotal: Installation</i>	7 / 44.852	4 / 24.408	7 / 30.009	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 99.269	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>78.953</b>	<b>37.477</b>	<b>44.812</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>161.242</b>	

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 4 / IBDSS-2
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**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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021	Jan 2022					
Delivery Dates	Sep 2021	Sep 2022					

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 44.852	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 44.852
FY 2021	- / -	4 / 24.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 24.408
FY 2022	- / -	- / -	7 / 30.009	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 30.009
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	7 / 44.852	4 / 24.408	7 / 30.009	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 99.269

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	2	2	-	-	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	18
Out	6	1	2	3	-	-	-	2	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	18

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 5 / IBDSS-3

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	49.370	0.000	49.370	83.386	97.102	-	-	-	229.858
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	49.370	0.000	49.370	83.386	97.102	-	-	-	229.858
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	-	<b>49.370</b>	<b>0.000</b>	<b>49.370</b>	<b>83.386</b>	<b>97.102</b>	-	-	-	<b>229.858</b>

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

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

**Description:**

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS-3): Reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally. DoD downsizing, reductions in forward basing, and aircraft technology advances evolved AF weapons systems into increasingly valuable national power projection capabilities. However, the security afforded most AF aircraft, weapon systems, other critical resources, and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment, state-of-the-art technology and potential threats. The emergence of Remotely Piloted Aircraft (RPA) has led to additional command, control and communications nodes that require commensurate protection level security efforts to enable effective Air Force power projection. Force Protection IBDSS projects support long-term physical security requirements which allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station, the Aerospace Expeditionary Force concept and meet the DOD Nuclear Weapons Security standard where applicable.

This continuing effort was previously named Base Physical Security Systems and is not a New Start.

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS-3): FY23 Funding is provided for procurement, design & engineering, modeling & simulation, infrastructure and allied support, installation, integration, training, acceptance testing, Interim Contractor Support (ICS) and interim spares for Base Physical Security Systems (BPSS) Intrusion Detection Systems (IDS) and Remote Target Engagement System (RTES). The funding also procures, installs and sustains a variety of electronic security alarms, sensors, and related systems to detect and provide early warning of potential threats against Air Force Protection Level (PL) 1,2,3, and 4 mission critical assets. Funding also supports the Nuclear (PL-1N) Weapon Storage Areas (WSAs) and Weapon Generation Facilities (WGFs) located throughout the CONUS and vault storage areas at main operating bases in Europe to meet long term physical security requirements in the face of enduring and emerging threats. This includes fielding, modernizing and sustaining RTES. This also includes upgrading existing system to ensure required capability for vault storage areas and associated intrusion detection, access control and assessment systems requirements, In Accordance With (IAW) USAF, EUCOM and NATO/SHAPE requirements. The funds also provide for upgrades, refurbishment, replacement or installation of new fences (required for sensor platforms) and/or lighting systems (to support the surveillance/assessment functions). Due to world-wide operational mission events, quantities are subject to change. IBDSS-3 will procure Tactical Automated Security Systems (TASS) and other tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for]wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment. Additionally, IBDSS-3 will procure all required Technology Integration Management (TIM) and associated integration and interoperability efforts.

IBDSS program is being restructured into discrete block upgrades.

Milestone/Development Status

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 5 / IBDSS-3
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	
<p>For Force Protection Commercial Off The Shelf (FP COTS) market research, evaluation and testing. The FP COTS testing applies to all available technologies (delay, denial, detection, assessment, communication display, access control and power) which are considered effective for AF physical security use. This program supports the maintenance and test support at Site C 3 and the Cold Weather Test Site (CWTS), as annotated in DoD Directive 3200.11, listing the 46th Test Wing (TW) as a Major Range and Test facility, conducting developmental and operational testing as the primary mission.</p> <p>Continuing COTS and Modified COTS for system equipment as it becomes obsolete.</p>		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System						<b>Modification Number / Title:</b> 5 / IBDSS-3			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Bases				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0207589F, 0604287F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> IBDSS-3													
B Kits													
Recurring													
IBDSS-3:EQUIPMENT Group B (Active)	- / -	- / -	- / -	14 / 14.958	- / -	14 / 14.958	14 / 25.502	12 / 29.653	- / -	- / -	- / -	40 / 70.113	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 14.958	- / -	- / 14.958	- / 25.502	- / 29.653	- / -	- / -	- / -	- / 70.113	
<i>Subtotal: IBDSS-3</i>	- / -	- / -	- / -	- / 14.958	- / -	- / 14.958	- / 25.502	- / 29.653	- / -	- / -	- / -	- / 70.113	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 14.958	- / -	- / 14.958	- / 25.502	- / 29.653	- / -	- / -	- / -	- / 70.113	
<b>Support (All Modification Items)</b>													
ICS-Labor	- / -	- / -	- / -	- / 1.120	- / -	- / 1.120	- / 1.120	- / 1.447	- / -	- / -	- / -	- / 3.687	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 1.120	- / -	- / 1.120	- / 1.120	- / 1.447	- / -	- / -	- / -	- / 3.687	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> IBDSS-3	- / -	- / -	- / -	14 / 33.292	- / -	14 / 33.292	14 / 56.764	12 / 66.002	- / -	- / -	- / -	40 / 156.058	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	14 / 33.292	- / -	14 / 33.292	14 / 56.764	12 / 66.002	- / -	- / -	- / -	40 / 156.058	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	-	49.370	0.000	49.370	83.386	97.102	-	-	-	229.858	

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 5 / IBDSS-3
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

**Modification Item 1 of 1:** IBDSS-3

**Manufacturer Information**

Manufacturer Name: TBD				Manufacturer Location: Various			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 8			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Jan 2023	Nov 2023	Nov 2024		
Delivery Dates			Sep 2023	Jul 2024	Jul 2025		

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	14 / 33.292	- / -	14 / 33.292	- / -	- / -	- / -	- / -	- / -	14 / 33.292
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	14 / 56.764	- / -	- / -	- / -	- / -	14 / 56.764
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 66.002	- / -	- / -	- / -	12 / 66.002
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	14 / 33.292	- / -	14 / 33.292	14 / 56.764	12 / 66.002	- / -	- / -	- / -	40 / 156.058

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	12	2	0	0	14	0	0	0	12	0	0	0	-	-	-	-	-	-	-	-	0	40
Out	0	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	4	4	4	3	4	-	-	-	-	-	-	-	-	0	40



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0207429F	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	23.762	193.185	343.088	134.213	-	134.213	113.954	95.202	215.659	221.377	-	1,340.440
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	23.762	193.185	343.088	134.213	-	134.213	113.954	95.202	215.659	221.377	-	1,340.440
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>23.762</b>	<b>193.185</b>	<b>343.088</b>	<b>134.213</b>	<b>-</b>	<b>134.213</b>	<b>113.954</b>	<b>95.202</b>	<b>215.659</b>	<b>221.377</b>	<b>-</b>	<b>1,340.440</b>

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

Initial Spares <i>(\$ in Millions)</i>	-	8.241	2.866	11.273	-	11.273	-	-	-	-	-	22.380
Flyaway Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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) test and 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.

ADVANCED RADAR THREAT SYSTEM VARIANT 1 (ARTS-V1): The ARTS-V1 program will procure long-range strategic SAM threat 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 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.

ADVANCED RADAR THREAT SYSTEM VARIANT 3 (ARTS-V3): The ARTS-V3 program will procure advanced Surface-to-Air Missile (SAM) radar and Electronic Warfare (EW) threat systems replicating strategic/tactical threats at the fidelity necessary for 5th generation, and 5th generation plus, aircraft for multi-domain platform engagements. Additionally, this procurement includes range support infrastructure procurement necessary to communicate with, handle data, operate, train against, and establish maintenance capabilities needed by ranges to utilize ARTS-V3.

RADAR SIGNAL EMULATORS (RSE): The RSE program will procure advanced Surface-to-Air Missile (SAM) radar threat systems that can replicate multiple threats at the fidelity necessary for 5th generation and multi-domain training.

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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0207429F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

P6 COMBAT TRAINING SYSTEMS (P6 CTS): The P6 CTS will replace the P5 CTS which is nearing end of life. P6 CTS will resolve existing critical training capability gaps and will enable comprehensive, realistic training environments for 4th Gen - 5th Gen aircraft systems. Key features of P6 CTS include a trusted Operating System, Multiple Level Security (MLS) architecture, Type 1 encryption of over-air data and increased processing capability. When paired with other recent and planned range infrastructure modernization, P6 CTS investment will realize robust Air-to-Air and Air-to-Ground combat training and provide a growth path to Live-Virtual-Constructive (LVC) and other future training enhancements.

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.

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.

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 the 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.

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 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).

LIVE MISSION OPERATIONS CAPABILITY (LMOC): LMOC is an effort to modernize training ranges with common hardware and software and standardize Live Training, 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 re/post mission coordination, in a multi-level secure environment to enable blended live-synthetic training for combat and combat support units.

Funding for this exhibit contained in PE 0207429F Combat Training Ranges.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force			<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):		<b>Program Elements for Code B Items:</b> 0207429F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A			

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		B		- / -	- / -	2 / 111.523	- / -	- / -	- / -
P-5	Advanced Radar Threat System V2	P-5a	B		- / 23.762	6 / 117.420	7 / 119.299	- / -	- / -	- / -
P-5	P6 Combat Training System		B		- / -	- / -	3 / 2.460	- / -	- / -	- / -
P-5	Modernization Systems		A		- / -	1 / 5.768	1 / 5.211	- / -	- / -	- / -
P-5	Joint Threat Emitter		A		- / -	- / 2.909	- / 1.295	- / -	- / -	- / -
P-5	Radar Signal Emulator	P-5a	A		- / -	- / -	- / 75.300	5 / 134.213	- / -	5 / 134.213
P-5	Range Equipment		A		- / -	- / 67.088	- / 28.000	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 23.762</b>	<b>- / 193.185</b>	<b>- / 343.088</b>	<b>- / 134.213</b>	<b>- / -</b>	<b>- / 134.213</b>

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

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

**Justification:**

Radar Signal Emulator (RSE): FY23 funding supports but is not limited to the procurement of five RSE systems.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges			<b>Item Number / Title [DODIC]:</b> Advanced Radar Threat System V1		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)			-	-	2	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	-	111.523	-	-	-
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	-	111.523	-	-	-
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	-	<b>111.523</b>	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	11.273	-	11.273
Gross/Weapon System Unit Cost (\$ in Millions)			-	-	55.762	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Advanced Radar Threat System V1 Cost</b>																		
Recurring Cost																		
Equipment-Radar System	-	-	-	-	-	-	37.985	2	75.970	-	-	-	-	-	-	-	-	-
Equipment -Surrogate Shell	-	-	-	-	-	-	0.637	2	1.274	-	-	-	-	-	-	-	-	-
Equipment- Software Support Station	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	-
Production - Engineering Change Orders	-	-	-	-	-	-	-	-	20.744	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	99.488	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Advanced Radar Threat System V1 Cost</i>	-	-	-	-	-	-	-	-	99.488	-	-	-	-	-	-	-	-	-
<b>Logistics - Advanced Radar Threat System V1 Cost</b>																		
Non Recurring Cost																		
Airlift Shipment	-	-	-	-	-	-	-	-	1.007	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	1.007	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics - Advanced Radar Threat System V1 Cost</i>	-	-	-	-	-	-	-	-	1.007	-	-	-	-	-	-	-	-	-
<b>Support - Advanced Radar Threat System V1 Cost</b>																		
Program Support Cost	-	-	-	-	-	-	-	-	0.383	-	-	-	-	-	-	-	-	-
Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges						<b>Item Number / Title [DODIC]:</b> Advanced Radar Threat System V1					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 Support Cost Contractor Services	-	-	-	-	-	-	-	-	10.645	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Advanced Radar Threat System V1 Cost</i>	-	-	-	-	-	-	-	-	<b>11.028</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	<b>55.762</b>	<b>2</b>	<b>111.523</b>	-	-	-	-	-	-	-	-	-

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**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> Advanced Radar Threat System V2
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	6	7	-	-	-
Gross/Weapon System Cost (\$ in Millions)	23.762	117.420	119.299	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	23.762	117.420	119.299	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>23.762</b>	<b>117.420</b>	<b>119.299</b>	-	-	-

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

Initial Spares (\$ in Millions)	-	-	2.866	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	19.570	17.043	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Advanced Radar Threat System V2 Cost</b>																		
Recurring Cost																		
Equipment <sup>(†)</sup>	20.654	1	20.654	16.260	6	97.560	16.244	7	113.708	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	20.654	-	-	97.560	-	-	113.708	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Advanced Radar Threat System V2 Cost</i>	-	-	20.654	-	-	97.560	-	-	113.708	-	-	-	-	-	-	-	-	-
<b>Software - Advanced Radar Threat System V2 Cost</b>																		
Recurring Cost																		
Software Engineering Change Orders	-	-	-	-	-	8.600	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	8.600	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - Advanced Radar Threat System V2 Cost</i>	-	-	-	-	-	8.600	-	-	-	-	-	-	-	-	-	-	-	-
<b>Ancillary Equipment - Advanced Radar Threat System V2 Cost</b>																		
Non Recurring Cost																		
Production Support Equipment	-	-	-	-	-	3.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	3.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Ancillary Equipment - Advanced Radar Threat System V2 Cost</i>	-	-	-	-	-	3.500	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges						<b>Item Number / Title [DODIC]:</b> Advanced Radar Threat System V2					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Advanced Radar Threat System V2 Cost																		
Program Support Costs Contractor Services	-	-	3.108	-	-	7.760	-	-	5.591	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Advanced Radar Threat System V2 Cost</i>	-	-	<b>3.108</b>	-	-	<b>7.760</b>	-	-	<b>5.591</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>23.762</b>	<b>19.570</b>	<b>6</b>	<b>117.420</b>	<b>17.043</b>	<b>7</b>	<b>119.299</b>	-	-	-	-	-	-	-	-	-

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> 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		2021	Lockheed Martin / Grand Prairie, TX	C / FFP	AFLCMC Hill AFB	May 2021	May 2023	6	16.260	Y	Mar 2021	Jan 2016
Equipment		2022	Lockheed Martin / Grand Prairie, TX	C / FFP	AFLCMC Hill AFB	May 2022	May 2024	7	16.244	Y	Mar 2022	Jan 2016



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> P6 Combat Training System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	3	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	2.460	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	2.460	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	<b>2.460</b>	-	-	-

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	0.820	-	-	-

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Hardware - P6 CTS GroundStation Cost																		
Recurring Cost																		
Equipment	-	-	-	-	-	-	0.820	3	2.460	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.460	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - P6 CTS GroundStation Cost</i>	-	-	-	-	-	-	-	-	2.460	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	0.820	3	2.460	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> Modernization Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	1	1	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	5.768	5.211	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	5.768	5.211	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>5.768</b>	<b>5.211</b>	-	-	-

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	5.768	5.211	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Control Shelter Cost</b>																		
Recurring Cost																		
Band Sim Control Shelter	-	-	-	5.599	1	5.599	4.500	1	4.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.599	-	-	4.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Control Shelter Cost</i>	-	-	-	-	-	5.599	-	-	4.500	-	-	-	-	-	-	-	-	-
<b>Support - Band Sim Cost</b>																		
Program Support Costs - Contractor Services	-	-	-	-	-	0.169	-	-	0.711	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Band Sim Cost</i>	-	-	-	-	-	0.169	-	-	0.711	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	5.768	1	5.768	5.211	1	5.211	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> Joint Threat Emitter

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )		-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )		-	2.909	1.295	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )		-	2.909	1.295	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )		-	<b>2.909</b>	<b>1.295</b>	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares ( <i>\$ in Millions</i> )		-	8.241	-	-	-	-
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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - JTE Cost																		
Program Support Costs (PSC) Contractor Services	-	-	-	-	-	1.880	-	-	1.285	-	-	-	-	-	-	-	-	-
PSC Other Government Costs	-	-	-	-	-	0.010	-	-	0.010	-	-	-	-	-	-	-	-	-
Support	-	-	-	-	-	1.019	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - JTE Cost</i>	-	-	-	-	-	<b>2.909</b>	-	-	<b>1.295</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>2.909</b>	-	-	<b>1.295</b>	-	-	-	-	-	-	-	-	-

**Remarks:**

- Support includes but is not limited to Joint Threat Emitter (JTE) end item engineering change proposals, training, and travel

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> Radar Signal Emulator

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	5	-	5
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	75.300	134.213	-	134.213
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	75.300	134.213	-	134.213
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	-	<b>75.300</b>	<b>134.213</b>	-	<b>134.213</b>

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	26.843	-	26.843

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Hardware - Radar Signal Emulator Cost																		
Non Recurring Cost																		
Radar Emulator Upgrades	-	-	-	-	-	-	-	-	75.300	-	-	-	-	-	-	-	-	-
Radar Emulator Systems <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	26.843	5	134.213	-	-	-	26.843	5	134.213
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	75.300	-	-	134.213	-	-	-	-	-	134.213
<i>Subtotal: Hardware - Radar Signal Emulator Cost</i>	-	-	-	-	-	-	-	-	75.300	-	-	134.213	-	-	-	-	-	134.213
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	75.300	26.843	5	134.213	-	-	-	26.843	5	134.213

**Remarks:**

Radar Signal Emulators will support Joint Pacific Alaska Range Complex and Nevada Test and Training Range.

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> Radar Signal Emulator
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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
Radar Emulator Systems		2023	CEA / Australia	SS / FFP	Redstone Arsenal, AL	Mar 2023	Mar 2026	5	26.843	Y		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges						<b>Item Number / Title [DODIC]:</b> Range Equipment						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		67.088		28.000		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		67.088		28.000		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
<b>Total Obligation Authority (\$ in Millions)</b>				-		<b>67.088</b>		<b>28.000</b>		-		-		-				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Hardware - Range Equipment Cost																		
Recurring Cost																		
Range Equipment Upgrades	-	-	-	-	-	67.088	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>67.088</i>	-	-	<i>0.000</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Range Equipment Cost</i>	-	-	-	-	-	<i>67.088</i>	-	-	<i>0.000</i>	-	-	-	-	-	-	-	-	-
Software - Simplified Planning Execution Analysis and Reconstruction (SPEAR) Cost																		
Non Recurring Cost																		
Range Software Upgrade	-	-	-	-	-	-	-	-	5.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>5.000</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - Simplified Planning Execution Analysis and Reconstruction (SPEAR) Cost</i>	-	-	-	-	-	-	-	-	<i>5.000</i>	-	-	-	-	-	-	-	-	-
Support - AESA Radar Characterization Cost																		
PMA Other Government Costs	-	-	-	-	-	-	-	-	23.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - AESA Radar Characterization Cost</i>	-	-	-	-	-	-	-	-	<i>23.000</i>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>67.088</b>	-	-	<b>28.000</b>	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> Range Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Remarks:</b> - 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.		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): **Program Elements for Code B Items:** 0303131F **Other Related Program Elements:** N/A

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	273.548	21.664	65.326	66.294	-	66.294	86.843	108.236	67.622	0.010	-	689.543
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	273.548	21.664	65.326	66.294	-	66.294	86.843	108.236	67.622	0.010	-	689.543
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>273.548</b>	<b>21.664</b>	<b>65.326</b>	<b>66.294</b>	-	<b>66.294</b>	<b>86.843</b>	<b>108.236</b>	<b>67.622</b>	<b>0.010</b>	-	<b>689.543</b>

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

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

**Description:**

The Minimum Essential Emergency Communications Network (MEECN) portfolio modernizes the systems necessary to effectively provide assured communications connectivity between the President and the strategic deterrence forces in stressed environments.

Global Aircrew Strategic Network Terminal (Global ASNT) replaces inadequate, unsustainable strategic communications equipment at bomber, tanker and reconnaissance Wing Command Posts (WCPs), Nuclear Task Forces and Munitions Support Squadrons (MUNSS) and for Mobile Support Teams (MSTs). Global ASNT is a ground-based system that provides survivable, secure communication paths to receive Emergency Action Messages (EAMs), Force Management messages, and Force Direction messages and disseminates them to bomber, tanker, and reconnaissance aircrews.

Global ASNT is being fielded in separate capability increments.

Global ASNT Increment 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 commenced in 2QFY22.

Global ASNT Increment 2 will field an Aircrew Alerting System (AAS) consisting of personal and general alerting equipment, and High Frequency (HF) and Ultra High Frequency (UHF) capabilities. Increment 2 replaces inadequate, unsustainable Electromagnetic Pulse Hardened Dispersal Communication (EHDC) systems and Aircrew Alerting Communications Electromagnetic Pulse (AACE) systems.

RDT&E funding for the Global ASNT Increment 2 exhibit is contained in PE 0303131F.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): **Program Elements for Code B Items:** 0303131F **Other Related Program Elements:** N/A

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 273.548	- / 21.664	- / 65.326	- / 52.209	- / 0.000	- / 52.209
P-3a	2 / GASNTi2 (Capability Improvement)		B		- / -	- / 0.000	- / 0.000	- / 14.085	- / 0.000	- / 14.085
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 273.548</b>	<b>- / 21.664</b>	<b>- / 65.326</b>	<b>- / 66.294</b>	<b>- / -</b>	<b>- / 66.294</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / GASNTi1 (Capability Improvement)		A		- / 43.208	- / 26.482	- / 12.494	- / 0.010	- / -	- / 494.941
P-3a	2 / GASNTi2 (Capability Improvement)		B		- / 43.635	- / 81.754	- / 55.128	- / 0.000	- / -	- / 194.602
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 86.843</b>	<b>- / 108.236</b>	<b>- / 67.622</b>	<b>- / 0.010</b>	<b>- / -</b>	<b>- / 689.543</b>

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

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

**Justification:**  
 This program, P-3A Mod MEECN2, GASNTi2, is a new start.

Global ASNT Increment 1 funds support production activities including preparation and planning for depot standup, engineering activities, schedule preparation and planning, production configuration control, production roadmap activities, site installations, and Interim Contractor Support (ICS).

-FY21 funds support installation, ICS, and Program Office activities including planning for depot standup, engineering activities, schedule preparation and planning, and production configuration and control.

-FY22 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. Funds will also include purchases of Electronic Security Systems (ESS).

-FY23 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. Funds will also include purchases of ESS.

-This program has overarching diminishing manufacturing sources (DMS) requirements and as such may need to use procurement funding to address these requirements.

Global ASNT Increment 2 funds support production and deployment requirements including procurement, installation, and check-out of 16 non-High-Altitude Electromagnetic Pulse (HEMP) systems, 74 HEMP-hardened systems, and 16 HEMP Mod Kids to retrofit the non-HEMP systems; also included are hosting operator and maintainer training courses at a centralized location, site surveys in advance of installations, initial spares, ICS, Program Office support, Government test support, and Other Government Costs (OGC).

-FY23 funds will support procurement, installation, and check-out of non-HEMP systems; also will support change orders, hosting operator and maintainer training courses at a centralized location, site surveys in advance of installations, initial spares, ICS, Program Office Support, Government Test Support, and OGC.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N	<b>Modification Number / Title:</b> 1 / GASNTi1

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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	273.548	21.664	65.326	52.209	0.000	52.209	43.208	26.482	12.494	0.010	-	494.941
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	273.548	21.664	65.326	52.209	0.000	52.209	43.208	26.482	12.494	0.010	-	494.941
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>273.548</b>	<b>21.664</b>	<b>65.326</b>	<b>52.209</b>	<b>0.000</b>	<b>52.209</b>	<b>43.208</b>	<b>26.482</b>	<b>12.494</b>	<b>0.010</b>	-	<b>494.941</b>

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

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

**Description:**

The 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 Increment 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 commenced in 2QFY22. This will complete the 2 production year lots. Production year 1 (FY19) was 48 terminals and Production year 2 (FY20) was 42 terminals for a total of 90 terminals.

Global ASNT Increment 1 funds support production activities including preparation and planning for depot standup, engineering activities, schedule preparation and planning, production configuration control, production roadmap activities, site installations, and Interim Contractor Support (ICS).

FY21 funds support installation, ICS, and Program Office activities including planning for depot standup, engineering activities, schedule preparation and planning, and production configuration and control.

FY22 funds support installation, ICS, and Program Office activities including planning for depot standup, engineering activities, schedule preparation and planning, and production configuration and control. Also includes purchase 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.

FY23 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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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N	<b>Modification Number / Title:</b> 1 / GASNTi1
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	

Milestone/Development Status

Development complete. Full Rate Production in process. Fielding of terminals commenced in 2QFY22.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N						<b>Modification Number / Title:</b> 1 / GASNTi1		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> GASNTi1			<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 2:</i> GASNTi1 Fixed												
A Kits												
Recurring												
GASNTi1 Fixed:INSTALL KITS Group A (Active)												
	- / 3.554	- / -	30 / 13.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 17.113
<i>Subtotal: Recurring</i>												
	- / 3.554	- / -	- / 13.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.113
B Kits												
Recurring												
GASNTi1 Fixed:EQUIPMENT Group B (Active)												
	43 / 123.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 123.930
<i>Subtotal: Recurring</i>												
	- / 123.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 123.930
<i>Subtotal: GASNTi1 Fixed</i>												
	- / 127.484	- / -	- / 13.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 141.043
<i>Modification Item 2 of 2:</i> GASNTi1 Transportable												
B Kits												
Recurring												
GASNTi1 Transportable:EQUIPMENT Group B (Active)												
	47 / 135.648	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 135.648
<i>Subtotal: Recurring</i>												
	- / 135.648	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 135.648
<i>Subtotal: GASNTi1 Transportable</i>												
	- / 135.648	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 135.648
<i>Subtotal: Procurement, All Modification Items</i>												
	- / 263.132	- / -	- / 13.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 276.691
<b>Support (All Modification Items)</b>												
A&AS												
	- / 6.573	- / 5.106	- / 3.838	- / 5.033	- / -	- / 5.033	- / 3.456	- / 2.173	- / 1.398	- / -	- / -	- / 27.577
ICS-Labor												
	- / 3.274	- / 16.558	- / 41.800	- / 39.004	- / -	- / 39.004	- / 33.623	- / 24.309	- / 11.096	- / 0.010	- / -	- / 169.674
<i>Subtotal: Support</i>												
	- / 9.847	- / 21.664	- / 45.638	- / 44.037	- / -	- / 44.037	- / 37.079	- / 26.482	- / 12.494	- / 0.010	- / -	- / 197.251
<b>Installation</b>												
<i>Modification Item 1 of 2:</i> GASNTi1 Fixed												
	0 / 0.000	0 / 0.000	16 / 3.632	15 / 3.405	- / -	15 / 3.405	12 / 2.724	- / -	- / -	- / -	- / -	43 / 9.761
<i>Modification Item 2 of 2:</i> GASNTi1 Transportable												
	0 / 0.569	0 / 0.000	11 / 2.497	21 / 4.767	- / -	21 / 4.767	15 / 3.405	- / -	- / -	- / -	- / -	47 / 11.238
<i>Subtotal: Installation</i>												
	- / 0.569	0 / 0.000	27 / 6.129	36 / 8.172	- / -	36 / 8.172	27 / 6.129	- / -	- / -	- / -	- / -	90 / 20.999
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>												
	273.548	21.664	65.326	52.209	0.000	52.209	43.208	26.482	12.494	0.010	-	494.941

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**Exhibit P-3a, Individual Modification: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N	<b>Modification Number / Title:</b> 1 / GASNTi1
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

**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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	0 / 0.000	16 / 3.632	15 / 3.405	- / -	15 / 3.405	12 / 2.724	- / -	- / -	- / -	- / -	43 / 9.761
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	0 / 0.000	0 / 0.000	16 / 3.632	15 / 3.405	- / -	15 / 3.405	12 / 2.724	- / -	- / -	- / -	- / -	43 / 9.761

**Installation Schedule**

PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	0	0	0	5	6	5	3	4	4	4	3	4	5	-	-	-	-	-	-	-	-	-	-	-	-	0	43	
Out	0	-	0	0	0	5	6	5	3	4	4	4	3	4	5	-	-	-	-	-	-	-	-	-	-	-	0	43		

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**Exhibit P-3a, Individual Modification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N	<b>Modification Number / Title:</b> 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 Transportable

**Manufacturer Information**

Manufacturer Name: Raytheon	Manufacturer Location: Largo, FL
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 16

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.569	0 / 0.000	11 / 2.497	21 / 4.767	- / -	21 / 4.767	15 / 3.405	- / -	- / -	- / -	- / -	47 / 11.238
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	0 / 0.569	0 / 0.000	11 / 2.497	21 / 4.767	- / -	21 / 4.767	15 / 3.405	- / -	- / -	- / -	- / -	47 / 11.238

**Installation Schedule**

PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	0	0	0	3	3	5	6	5	5	5	6	5	4	-	-	-	-	-	-	-	-	-	-	-	-	0	47
Out	0	-	-	0	0	0	3	3	5	6	5	5	5	6	5	4	-	-	-	-	-	-	-	-	-	-	-	0	47	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N	<b>Modification Number / Title:</b> 2 / GASNTi2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	14.085	0.000	14.085	43.635	81.754	55.128	0.000	-	194.602
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	14.085	0.000	14.085	43.635	81.754	55.128	0.000	-	194.602
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>14.085</b>	<b>0.000</b>	<b>14.085</b>	<b>43.635</b>	<b>81.754</b>	<b>55.128</b>	<b>0.000</b>	-	<b>194.602</b>

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

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

**Description:**

This program, P-3A Mod MEECN2, GASNTi2, is a new start.

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 Increment 2 delivers an Aircrew Alerting System (AAS) consisting of personal and general alerting equipment, and High Frequency (HF) and Ultra High Frequency (UHF) capabilities. Increment 2 replaces inadequate, unsustainable Electromagnetic Pulse Hardened Dispersal Communication (EHDC) systems and Aircrew Alerting Communications Electromagnetic Pulse (AACE) systems.

RDT&E funding for this exhibit is contained in PE 0303131F.

**Milestone/Development Status**

FY23 and out production and deployment (P&D) requirements include procurement, installation, and check-out of 16 non-High-Altitude Electromagnetic Pulse (HEMP) systems, 74 HEMP-hardened systems, and 16 HEMP Mod Kits to retrofit the non-HEMP systems; also included are hosting operator and maintainer training courses at a centralized location, site surveys in advance of installations, initial spares, Interim Contractor Support (ICS), Program Office Support, Government Test Support, and Other Government Costs (OGC)



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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4					<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N					<b>Modification Number / Title:</b> 2 / GASNTi2			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> GASNTi2				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0303131F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>RDT&amp;E PE #</b>													
0303131F	- / -	- / -	- / -	- / 18.727	- / -	- / 18.727	- / -	- / -	- / -	- / -	- / -	- / 18.727	
<b>Procurement</b>													
<b>Modification Item 1 of 2: HEMP</b>													
A Kits													
Recurring													
HEMP:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 10.767	- / -	- / -	16 / 10.767	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.767	- / -	- / -	- / 10.767	
B Kits													
Recurring													
HEMP:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	12 / 10.465	48 / 52.475	14 / 16.168	- / -	- / -	74 / 79.108	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.465	- / 52.475	- / 16.168	- / -	- / -	- / 79.108	
<i>Subtotal: HEMP</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.465	- / 52.475	- / 26.935	- / -	- / -	- / 89.875	
<b>Modification Item 2 of 2: Non-HEMP</b>													
B Kits													
Recurring													
Non-HEMP:EQUIPMENT Group B (Active)	- / -	- / -	- / -	4 / 5.104	- / -	4 / 5.104	12 / 8.778	- / -	- / -	- / -	- / -	16 / 13.882	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 5.104	- / -	- / 5.104	- / 8.778	- / -	- / -	- / -	- / -	- / 13.882	
<i>Subtotal: Non-HEMP</i>	- / -	- / -	- / -	- / 5.104	- / -	- / 5.104	- / 8.778	- / -	- / -	- / -	- / -	- / 13.882	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 5.104	- / -	- / 5.104	- / 19.243	- / 52.475	- / 26.935	- / -	- / -	- / 103.757	
<b>Support (All Modification Items)</b>													
Change Orders	- / -	- / -	- / -	- / 2.175	- / -	- / 2.175	- / 4.445	- / 4.332	- / 3.893	- / -	- / -	- / 14.845	
A&AS	- / -	- / -	- / -	- / 0.790	- / -	- / 0.790	- / 1.557	- / 1.617	- / 0.920	- / -	- / -	- / 4.884	
FFRDC	- / -	- / -	- / -	- / 0.390	- / -	- / 0.390	- / 1.458	- / 1.486	- / 0.965	- / -	- / -	- / 4.299	
ICS Labor	- / -	- / -	- / -	- / 1.578	- / -	- / 1.578	- / 4.518	- / 8.370	- / 6.058	- / -	- / -	- / 20.524	
PMA - Contractor Services	- / -	- / -	- / -	- / 0.971	- / -	- / 0.971	- / 3.141	- / 3.113	- / 2.328	- / -	- / -	- / 9.553	
Type I Training	- / -	- / -	- / -	- / 0.682	- / -	- / 0.682	- / 1.883	- / 1.938	- / 2.792	- / -	- / -	- / 7.295	
Prime Contractor Site Surveys	- / -	- / -	- / -	- / 1.505	- / -	- / 1.505	- / 2.336	- / -	- / -	- / -	- / -	- / 3.841	
Prime Contractor ODCs	- / -	- / -	- / -	- / 0.332	- / -	- / 0.332	- / 2.201	- / 3.281	- / 4.699	- / -	- / -	- / 10.513	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 8.423	- / -	- / 8.423	- / 21.539	- / 24.137	- / 21.655	- / -	- / -	- / 75.754	
<b>Installation</b>													
<b>Modification Item 1 of 2: HEMP</b>	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.051	27 / 5.142	40 / 6.538	- / -	- / -	74 / 12.731	

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification:** PB 2023 Air Force **Date:** April 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:** 2 / GASNTi2

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

**Models of Systems Affected:** GASNTi2 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0303131F

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Modification Item 2 of 2:</b> Non-HEMP	- / -	- / -	- / -	4 / 0.558	- / -	4 / 0.558	12 / 1.802	- / -	- / -	- / -	- / -	16 / 2.360
<i>Subtotal: Installation</i>	- / -	- / -	- / -	4 / 0.558	- / -	4 / 0.558	19 / 2.853	27 / 5.142	40 / 6.538	- / -	- / -	90 / 15.091
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	0.000	0.000	14.085	0.000	14.085	43.635	81.754	55.128	0.000	-	194.602

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N	<b>Modification Number / Title:</b> 2 / GASNTi2
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 2:** HEMP

**Manufacturer Information**

Manufacturer Name: General Dynamic Mission Systems	Manufacturer Location: Taunton, MA
--	------------------------------------

Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 5
--	------------------------------------

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				Jan 2024	Jan 2025	Jan 2026	
Delivery Dates				Jun 2024	Jun 2025	Jun 2026	

**Installation Information**

**Method of Implementation:** Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.051	5 / 0.952	- / -	- / -	- / -	12 / 2.003
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 4.190	26 / 4.250	- / -	- / -	48 / 8.440
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 2.288	- / -	- / -	14 / 2.288
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.051	27 / 5.142	40 / 6.538	- / -	- / -	74 / 12.731

**Installation Schedule**

PYS	In	Out	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	-	10	12	12	12	12	4	-	-	-	-	0	74
	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	-	10	12	12	12	12	4	-	-	-	-	0	74

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834210 / Minimum Essential Emergency Comm N	<b>Modification Number / Title:</b> 2 / GASNTi2
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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**Modification Item 2 of 2:** Non-HEMP

**Manufacturer Information**

Manufacturer Name: General Dynamic Mission Systems	Manufacturer Location: Taunton, MA
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Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4
--	------------------------------------

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Nov 2022	Nov 2023			
Delivery Dates			Mar 2023	Mar 2024			

**Installation Information**

**Method of Implementation:** Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	4 / 0.558	- / -	4 / 0.558	- / -	- / -	- / -	- / -	- / -	4 / 0.558
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.802	- / -	- / -	- / -	- / -	12 / 1.802
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	- / -	4 / 0.558	- / -	4 / 0.558	12 / 1.802	- / -	- / -	- / -	- / -	16 / 2.360

**Installation Schedule**

PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	2	2	-	4	8	-	-	-	-	-	-	-	-	-	-	-	-	0	16
Out	0	-	-	-	-	-	-	-	-	-	-	2	2	-	4	8	-	-	-	-	-	-	-	-	-	-	-	-	0	16

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	47.538	38.794	29.518	-	29.518	11.040	0.000	0.000	0.000	243.071	369.961
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	47.538	38.794	29.518	-	29.518	11.040	0.000	0.000	0.000	243.071	369.961
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>47.538</b>	<b>38.794</b>	<b>29.518</b>	-	<b>29.518</b>	<b>11.040</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>243.071</b>	<b>369.961</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	1.904	0.013	4.997	-	4.997	5.346	5.405	5.518	-	-	23.183
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 FY23, 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 FY23, 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.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / -	- / 47.538	- / 38.794	- / 29.518	- / -	- / 29.518
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 47.538</b>	<b>- / 38.794</b>	<b>- / 29.518</b>	<b>- / -</b>	<b>- / 29.518</b>

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

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

**Justification:**  
 FY23 funds will include, but are not limited to:  
 - 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. Funds will support technical refresh of fielded sites.  
 - 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.  
 - Program and direct mission support providing management, engineering, cost and technical support for the program office.  
 - 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.  
 - Procure, produce and field operational Scorpion sensors  
 - Some key components of each WAS site require significant lead time items.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834240 / Wide Area Surveillance (WAS)	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	47.538	38.794	29.518	-	29.518
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	47.538	38.794	29.518	-	29.518
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>47.538</b>	<b>38.794</b>	<b>29.518</b>	-	<b>29.518</b>

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

Initial Spares (\$ in Millions)	-	1.904	0.013	4.997	-	4.997
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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Wide Area Surveillance Cost</b>																		
Recurring Cost																		
Prime <sup>(†)</sup> (1)	-	-	-	1.873	15	28.098	2.002	15	30.028	1.641	13	21.328	-	-	-	1.641	13	21.328
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	28.098	-	-	30.028	-	-	21.328	-	-	-	-	-	21.328
Non Recurring Cost																		
Prime ICS	-	-	-	-	-	7.841	-	-	0.000	-	-	1.325	-	-	-	-	-	1.325
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	7.841	-	-	0.000	-	-	1.325	-	-	-	-	-	1.325
<i>Subtotal: Hardware - Wide Area Surveillance Cost</i>	-	-	-	-	-	<b>35.939</b>	-	-	<b>30.028</b>	-	-	<b>22.653</b>	-	-	-	-	-	<b>22.653</b>
<b>Support - Wide Area Surveillance Cost</b>																		
DMS Support	-	-	-	-	-	2.953	-	-	2.745	-	-	1.784	-	-	-	-	-	1.784
A&AS	-	-	-	-	-	8.646	-	-	6.021	-	-	5.081	-	-	-	-	-	5.081
<i>Subtotal: Support - Wide Area Surveillance Cost</i>	-	-	-	-	-	<b>11.599</b>	-	-	<b>8.766</b>	-	-	<b>6.865</b>	-	-	-	-	-	<b>6.865</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>47.538</b>	-	-	<b>38.794</b>	-	-	<b>29.518</b>	-	-	-	-	-	<b>29.518</b>

(†) indicates the presence of a P-5a

**Footnotes:**

(1) Hardware Recurring Prime: FY20/ FY21/ FY22 / FY23 total WAS quantities/costs will be broken out between Stateside Affordable Radar Systems (STARS) and Scorpion systems, which have significantly different average unit costs; FY23 quantities has increased from 3 to 13 due to change in acquisition strategy

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834240 / Wide Area Surveillance (WAS)	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance
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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 <sup>(†)</sup>		2021	Leidos / Various	C / Various	AFLCMC Hanscom AFB	Oct 2021	Mar 2023	15	1.873	N	Jun 2021	
Prime <sup>(†)</sup>		2022	Leidos / Various	C / Various	AFLCMC Hanscom AFB	Mar 2022	Feb 2024	15	2.002	N	Jan 2022	
Prime <sup>(†)</sup>		2023	Leidos / Various	TBD	AFLCMC Hanscom AFB	Apr 2023	Dec 2024	13	1.641	N	Feb 2023	

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834240 / Wide Area Surveillance (WAS)	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023										BALANCE						
O C C #	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 <sup>(1)</sup>																																				
1		2021	AF	15	0	15	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	3	-	3	3	3
1		2022	AF	15	0	15																													15	
1		2023	AF	13	0	13																													13	
							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 2023 Air Force **Date:** April 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

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 <sup>(1)</sup>																																	
1	2021	AF		15	12	3	-	-	3																				0				
1	2022	AF		15	0	15	-	-	-	-	3	-	3	-	3	-	-	3	-	-	3								0				
1	2023	AF		13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-	3	-	-	3	-	-	1		
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834240 / Wide Area Surveillance (WAS)	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026												Fiscal Year 2027												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027												
							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 <sup>(1)</sup>																															
	1	2021	AF	15	15	0																								0	
	1	2022	AF	15	15	0																								0	
	1	2023	AF	13	12	1	1																							0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834240 / Wide Area Surveillance (WAS)	<b>Item Number / Title [DODIC]:</b> Wide Area Surveillance
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	1	1	20	15	7	20	27	0	0	0	0

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

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	89.906	119.635	55.324	-	55.324	99.033	52.343	44.456	45.466	-	506.163
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	89.906	119.635	55.324	-	55.324	99.033	52.343	44.456	45.466	-	506.163
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>89.906</b>	<b>119.635</b>	<b>55.324</b>	-	<b>55.324</b>	<b>99.033</b>	<b>52.343</b>	<b>44.456</b>	<b>45.466</b>	-	<b>506.163</b>

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

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

**Description:**

PE 0208064F 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 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 Line Item 831010 Comm Security Equipment (Comsec) to Line Item 834320 C3 Countermeasures for clarity in reporting. Funding for this exhibit contained in PE 0208064F.

PE 0208087F Distributed Cyber Warfare Operations (DCWO)

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)

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 Line Item 831010 Comm Security Equipment (Comsec) and Line Item 835080 AFNET to Line Item 834320 C3 Countermeasures for clarity in reporting. Funding in this exhibit contained in PE 0208088F.

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>capability 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 Line Item 835080 AFNET to Line Item 834320 C3 Countermeasures for clarity in reporting.</p> <p>The FY 2023 funding request was reduced by \$1.94 million to account for the availability of prior year execution balances.</p> <p>Funding in this exhibit contained in PE 0208099F.</p> <p>PE 0303166F Joint Information Operations Range (JIOR) 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 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. 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>The FY 2023 funding request was reduced by \$3.677 million to account for the availability of prior year execution balances.</p> <p>Funding for this exhibit contained in PE 0306250F.</p> <p>PE 0804762F Cyberspace Training 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.</p> <p>The FY 2023 funding request was reduced by \$0.060 million to account for the availability of prior year execution balances.</p> <p>Funding for this exhibit contained in PE 0804762F.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	P-5a, P-21	A		- / -	- / 4.794	- / 4.882	- / 8.417	- / -	- / 8.417
P-5	Distributed Cyber Warfare Operations	P-5a, P-21	A		- / -	- / 18.782	- / 16.848	- / 29.051	- / -	- / 29.051
P-5	AF Defensive Cyberspace Operations	P-5a, P-21	A		- / -	- / 44.802	- / 77.275	- / 0.000	- / -	- / 0.000
P-5	Unified Platform (UP)	P-5a, P-21	A		- / -	- / 4.956	- / 4.904	- / 5.013	- / -	- / 5.013
P-5	Support to Information Operations (IO) Capabilities	P-5a, P-21	A		- / -	- / 0.000	- / 1.226	- / 1.160	- / -	- / 1.160
P-5	Cyber Operations Technology Support	P-5a, P-21	A		- / -	17 / 11.986	13 / 9.881	5 / 3.808	- / -	5 / 3.808
P-5	Cyberspace Training	P-5a, P-21	A		- / -	- / 4.586	- / 4.619	- / 7.875	- / -	- / 7.875
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 89.906</b>	<b>- / 119.635</b>	<b>- / 55.324</b>	<b>- / -</b>	<b>- / 55.324</b>

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

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

**Justification:**  
 PE 0208064F Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS)  
 C3MS capabilities will fully transition to Joint Cyber Command and Control (JCC2). FY23 funding purchases commercial cloud capability, automated data exchange, cyber situational awareness displays, and mission application modernization/migration in support of interoperability and integration into JCC2 as well as 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 Line Item 831010 Comm Security Equipment (Comsec) to Line Item 834320 C3 Countermeasures for clarity in reporting.

PE 0208087F AF Distributed Cyber Warfare Operations (DCWO)  
 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. FY23 funding increases to continue investment in additional hardware and software and recapitalization for various systems in Distributed Cyber Warfare Operations (DCWO) PE 0208087F. System specifics 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  
 In FY23, the DAF realigned 240.9M from Program Element (PE) 0208088F AF Defensive Cyberspace Operations (AFDCO) to PE 0308605F AF Defensive Cyber Systems (AFDCS) in order to consolidate efforts under a single Budget Activity 8 (BA08) Software and Digital Technology Pilot Program. This consolidation helps accelerate integration and modernization required to address the evolving cyber threat. Prior to FY23, funding was contained in PE 0208088F Projects 677821; 677822; 677823; Operations & Maintenance (O&M) AG/SAGs 12D/11V, and Other Procurement Line Item 834320. FY21 amount \$44.802M incorrect due to database error. Actual FY21 amount \$46.602M.

Air Force Defensive Cyber Systems (AFDCS) sustains, enhances, and integrates three defensive cyber weapon systems: Cyberspace Vulnerability Assessment/Hunter (CVA/H); Cyber Defense Analysis (CDA); and AFCERT (ACD). AFDCS provides and equips USAF operational units, predominantly Cyber Protection Teams, Mission Defense Teams, and network defenders with the capabilities required to protect USAF networks and systems. End users comprise over 2,000 operators across the country from across the Total Force - Active Duty (AD), Air National Guard (ANG), and Air Force Reserve Command (AFRC). AFDCS coordinates and executes resources needed to assess, analyze, and respond to Air Force network security incidents, intrusive activity, malicious logic (i.e., viruses) and vulnerabilities. AFDCS provides continuous monitoring and defense of Cybersecurity Service Provider (CSSP) assigned to the Department of Defense (DoD), AF classified, and unclassified computer networks. AFDCS conducts defensive cyberspace operations by monitoring, collecting, analyzing, and reporting on sensitive information released from friendly unclassified systems, such as computer networks, telephones, email, and USAF websites.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>AFDCS conducts vulnerability assessments, network intrusion analysis, systems vulnerability analysis, and protects against the advanced persistent threat through fielded Hunter teams. Hunter teams provide worldwide defensive cyberspace operations on AF classified and unclassified networks.</p> <p>The systems within AFDCS are managed through an Agile software development procurement and sustainment process that includes working from a prioritized backlog managed by the Program Management Office (PMO) according to priorities provided by MAJCOM and operational users. Priorities are updated at least every 3- months . Priorities can be adjusted, and usable capability produced after every iteration. This approach allows the program to focus on current operational priorities, achieve early return on investment, mitigate risk, reduce waste, effectively respond to change, and continuously improve processes.</p> <p>This effort funds the development activities to enhance defensive cyberspace capabilities, computer and network systems security, damage assessment and recovery, cyber threat recognition, attribution, and mitigation, and active response methodologies in response to evolving threats and changes to cyber environment. These areas of emphasis are realized through research and development, test and acquisition in the areas of proactive defense, defensive counter cyberspace, cyberspace intelligence, surveillance and reconnaissance, command and control situational awareness, persistent network operations, as well as decision support, recovery, and digital forensics. Investment into the current weapon systems are also intended to meet the scope and scale of USCYBERCOM directed Cyber Protection Teams and AF Mission Defense Teams.</p> <p>Funding provides the AFDCS Operators with the development and sustainment of capabilities to identify compromised information from network intrusions and to determine potential impacts and necessary operational adjustments resulting from information disclosures.</p> <p>No Budget Year FY23 procurement funds requested.</p> <p>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 at the operations through tactical levels of warfare. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from Line Item 835080 AFNET to Line Item 834320 C3 Countermeasures for clarity in reporting. FY21 total amount of \$4.956M is incorrect due to database error. Actual FY21 total amount is \$3.156M.</p> <p>PE 0303166F Joint Information Operation Requirement (JIOR) Periodic technology upgrades are required to make the JIOR more efficient, agile, and sufficiently robust to accommodate significant network expansion to meet additional Cyber Mission Force demand and to permit a focused modernization effort. FY23 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 new sites while continuing support to the existing JIOR access points. Equipment for 20 new sites will be procured in FY23.</p> <p>PE 0306250F Cyber Operations Technology Development FY23 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 Funding for PE was realigned from PE 0208087F beginning in FY21 to clarify spending on Cyber Training. Funding procures student mission training systems (hardware, software, infrastructure, and facility modifications) supporting Information and Cyber Operations training needs. FY23 funding continues investment to provide additional hardware and software supporting training capacity increases to meet Cyber Mission Force (CMF) required pipeline of from 2190 to approximately 3396 students/year. Includes essential training infrastructure suite consisting of switches, servers, storage, and software licenses for additional virtual classrooms. Funding for this exhibit realigned from PE 0208087F beginning in FY21 for clarity in reporting.</p>		



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> OPERATIONAL HQ - CYBER

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	4.794	4.882	8.417	-	8.417
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	4.794	4.882	8.417	-	8.417
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>4.794</b>	<b>4.882</b>	<b>8.417</b>	-	<b>8.417</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 <sup>(†)</sup>	-	-	-	2.683	1	2.683	3.234	1	3.234	7.612	1	7.612	-	-	-	7.612	1	7.612
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.683	-	-	3.234	-	-	7.612	-	-	-	-	-	7.612
<i>Subtotal: Hardware - Operational HQ - Cyber Cost</i>	-	-	-	-	-	2.683	-	-	3.234	-	-	7.612	-	-	-	-	-	7.612
Support - Operational HQ - Cyber Cost																		
Program Support Costs (PSC)	-	-	-	-	-	2.111	-	-	1.648	-	-	0.805	-	-	-	-	-	0.805
<i>Subtotal: Support - Operational HQ - Cyber Cost</i>	-	-	-	-	-	2.111	-	-	1.648	-	-	0.805	-	-	-	-	-	0.805
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>4.794</b>	-	-	<b>4.882</b>	-	-	<b>8.417</b>	-	-	-	-	-	<b>8.417</b>

**Remarks:**

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

<sup>(†)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> OPERATIONAL HQ - CYBER
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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
HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE <sup>(†)</sup>		2021	Multiple / Various	PO	AFLCMC/HN	Feb 2021	Mar 2021	1	2.683	Y		
HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE <sup>(†)</sup>		2022	Multiple / Various	PO	AFLCMC/HN	Feb 2022	Mar 2022	1	3.234	Y		
HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE <sup>(†)</sup>		2023	Multiple / Various	PO	AFLCMC/HN	Mar 2023	Jun 2023	1	7.612	Y		

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

**Remarks:**

The prior year quantities of 1 listed for OPERATIONAL HQ-CYBER (C3MS) represent the sum package of various information technology hardware and software required to support the C3MS weapon system capability in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the weapon systems capabilities.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> OPERATIONAL HQ - CYBER
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE																															
1		2021	AF	1	0	1																								0	
1		2022	AF	1	0	1																								0	
1		2023	AF	1	0	1																								1	
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> OPERATIONAL HQ - CYBER
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE																			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																															
							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																					
HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE																																																			
1		2021	AF	1	1	0																											0																		
1		2022	AF	1	1	0																											0																		
1		2023	AF	1	0	1						A	-	-	-	1														0																					
<table style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>O C C #</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																												O C C #	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
O C C #	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
		<b>Item Number / Title [DODIC]:</b> OPERATIONAL HQ - CYBER

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Multiple - Various	1	1	1	1	6	3	9	0	0	0	0

**Remarks:**  
Note: MSR, ECON, and MAX are Not Applicable. Items procured are Commercial Off The Shelf (COTS).

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Distributed Cyber Warfare Operations

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	18.782	16.848	29.051	-	29.051
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	18.782	16.848	29.051	-	29.051
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>18.782</b>	<b>16.848</b>	<b>29.051</b>	-	<b>29.051</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Software - Distributed Cyber Warfare Operations Cost</b>																		
<b>Recurring Cost</b>																		
Support - PMA Cost	-	-	-	3.728	1	3.728	3.840	1	3.840	3.957	1	3.957	-	-	-	3.957	1	3.957
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.728	-	-	3.840	-	-	3.957	-	-	-	-	-	3.957
<b>Non Recurring Cost</b>																		
Distributed Cyber Warfare Operations Cost <sup>(t)</sup>	-	-	-	15.054	1	15.054	13.008	1	13.008	25.094	1	25.094	-	-	-	25.094	1	25.094
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	15.054	-	-	13.008	-	-	25.094	-	-	-	-	-	25.094
<i>Subtotal: Software - Distributed Cyber Warfare Operations Cost</i>	-	-	-	-	-	<b>18.782</b>	-	-	<b>16.848</b>	-	-	<b>29.051</b>	-	-	-	-	-	<b>29.051</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>18.782</b>	-	-	<b>16.848</b>	-	-	<b>29.051</b>	-	-	-	-	-	<b>29.051</b>

**Remarks:**

- The prior year quantities of 1 listed for Distributed Cyber Warfare Operations (DCWO) represent the sum package of various information technology hardware and software required to support the DCWO weapon system capability in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the weapon systems capabilities.
- FY23 funding increases to continue investment in additional hardware and software as well as recapitalization for various systems in Distributed Cyber Warfare Operations (DCWO) PE 0208087F. System specifics are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

<sup>(t)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Distributed Cyber Warfare Operations
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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
Distributed Cyber Warfare Operations Cost <sup>(†)</sup>		2021	Various / Various	Various	AFLCMC/HN	Nov 2020	Dec 2020	1	15.054	Y		
Distributed Cyber Warfare Operations Cost <sup>(†)</sup>		2022	Various / Various	Various	AFLCMC/HN	Nov 2021	Dec 2021	1	13.008	Y		
Distributed Cyber Warfare Operations Cost <sup>(†)</sup>		2023	Various / Various	Various	AFLCMC/HN	Nov 2022	Dec 2022	1	25.094	Y		

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

**Remarks:**

- The prior year quantities of 1 listed for Distributed Cyber Warfare Operations (DCWO) represent the sum package of various information technology hardware and software required to support the DCWO weapon system capability in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the weapon systems capabilities.
- Multiple competitive contracts awarded procuring hardware in support of development in PE 0208087F, Distributed Cyber Warfare Operations

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Distributed Cyber Warfare Operations
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
Distributed Cyber Warfare Operations Cost																																	
1		2021	AF	1	0	1		A -	1																				0				
1		2022	AF	1	0	1																					A -	1	0				
1		2023	AF	1	0	1																							1				
								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 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures **Item Number / Title [DODIC]:** Distributed Cyber Warfare Operations

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Distributed Cyber Warfare Operations Cost																															
1		2021	AF	1	1	0																							0		
1		2022	AF	1	1	0																							0		
1		2023	AF	1	0	1			A -		1																		0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Distributed Cyber Warfare Operations
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	0	0	0	0	0	1	2	1	3

**Remarks:**  
Note: MSR, ECON, and MAX are Not Applicable. Items procured are Commercial Off The Shelf (COTS).

- The prior year quantities of 1 listed for Distributed Cyber Warfare Operations (DCWO) represent the sum package of various information technology hardware and software required to support the DCWO weapon system capability in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the weapon systems capabilities.

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

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> AF Defensive Cyberspace Operations

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	44.802	77.275	0.000	-	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	44.802	77.275	0.000	-	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>44.802</b>	<b>77.275</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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) <sup>(†)</sup>	-	-	-	0.052	435	22.616	0.052	534	27.770	-	-	0.000	-	-	-	-	-	0.000
2. Computer Security Assistance Program(CSAP)	-	-	-	2.060	1	2.060	-	-	-	-	-	0.000	-	-	-	-	-	0.000
3. Cyberspace Defense Analysis (CDA) <sup>(†)</sup>	-	-	-	1.699	1	1.699	10.374	1	10.374	-	-	0.000	-	-	-	-	-	0.000
4. Weapon System Cyber Response (WSCR) <sup>(†)</sup>	-	-	-	0.052	91	4.745	0.052	294	15.271	-	-	0.000	-	-	-	-	-	0.000
5. Air Force Cyber Defense (ACD) <sup>(†)</sup>	-	-	-	13.682	1	13.682	23.860	1	23.860	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	44.802	-	-	77.275	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - AF Defensive Cyberspace Operations Cost</i>	-	-	-	-	-	44.802	-	-	77.275	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>44.802</b>	-	-	<b>77.275</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>

**Remarks:**  
Notes:

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> AF Defensive Cyberspace Operations
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<p>1. In FY21 CVA/H, CSAP, CDA, and WSCR funding was realigned from Line Item 831010 Comsec Equipment and ACD was realigned from Line Item 835080 AFNET. Prior year details can be found in Line Item 831010 and Line Item 835080 respectively.</p> <p>2. In FY22 CSAP funding transitioned into ACD baseline. ACD and CVA/H programs transitioned to industry standard agile frameworks, enabling consolidation of CSAP requirements into ACD and CVA/H program baselines.</p> <p>3. In FY23 budget controls have been realigned to Air Force PE 0308605F, Project 682001, Air Force Defensive Cyber Systems (AFDCS) for participation in the BA08, Software and Digital Technology Pilot Program. No FY23 Procurement funds are requested.</p> <p>4. DCO Cyber weapon systems are centrally managed.</p> <p>5. The prior year quantities of 1 listed for Cyberspace Defense Analysis (CDA) and Air Force Cyber Defense (ACD) represent the sum package of various information technology hardware and software required to support the CDA weapon system capability in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the weapon systems capabilities.</p> <p>6. The Cyberspace Vulnerability Assessment/Hunter (CVA/H) kits are comprised of various commercial-off-the-shelf (COTS) and government-off-the-shelf (GOTS) hardware and software required to perform the CVA/H missions in support of USCYBERCOM Cyber Protection Teams (CPT). Weapon System Cyber Response procures CVA/H kits required for US Air Force Mission Defense Teams (MDT) to secure and defend key cyber terrain at the base level.</p> <p>7. FY21 amount \$44.802M incorrect due to database error. Actual FY21 amount \$46.602M. Cost Element Air Force Cyber Defense (ACD) for FY21 is actually \$15.482M.</p> <p>(t) indicates the presence of a P-5a</p>		

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> AF Defensive Cyberspace Operations
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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
1. Cyberspace Vulnerability Assessment/Hunter(CVA/H) <sup>(†)</sup>		2021	Various / Various	Various	AFLCMC/HN	Feb 2021	May 2021	435	0.052	Y		
1. Cyberspace Vulnerability Assessment/Hunter(CVA/H) <sup>(†)</sup>		2022	Various / Various	Various	AFLCMC/HN	Mar 2022	Jun 2022	534	0.052	Y		
3. Cyberspace Defense Analysis (CDA) <sup>(†)</sup>		2021	CDO / DAYTON, OH	Various	AFLCMC/HN	Jan 2021	Jan 2021	1	1.699	Y		
3. Cyberspace Defense Analysis (CDA) <sup>(†)</sup>		2022	Various / Various	Various	AFLCMC/HN	Mar 2022	Jun 2022	1	10.374	Y		
4. Weapon System Cyber Response (WSCR) <sup>(†)</sup>		2021	Various / Various	Various	AFLCMC/HN	Jun 2021	Sep 2021	91	0.052	Y		
4. Weapon System Cyber Response (WSCR) <sup>(†)</sup>		2022	Various / Various	Various	AFLCMC/HN	Apr 2022	Jul 2022	294	0.052	Y		
5. Air Force Cyber Defense (ACD) <sup>(†)</sup>		2021	various / Various	Various	AFLCMC/HN	Mar 2021	May 2021	1	13.682	Y		
5. Air Force Cyber Defense (ACD) <sup>(†)</sup>		2022	various / Various	Various	AFLCMC/HN	Mar 2022	Jun 2022	1	23.860	Y		

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

**Remarks:**  
FY23 budget controls have been realigned to Air Force PE 0308605F, Project 682001, Air Force Defensive Cyber Systems (AFDCS) for participation in the BA08, Software and Digital Technology Pilot Program.

The prior year quantities of 1 listed for Cyberspace Defense Analysis (CDA) and Air Force Cyber Defense (ACD) represent the sum package of various information technology hardware and software required to support the CDA weapon system capability in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the weapon systems capabilities.

The Cyberspace Vulnerability Assessment/Hunter (CVA/H) kits are comprised of various commercial-off-the-shelf (COTS) and government-off-the-shelf (GOTS) hardware and software required to perform the CVA/H missions in support of USCYBERCOM Cyber Protection Teams (CPT). Weapon System Cyber Response procures CVA/H kits required for US Air Force Mission Defense Teams (MDT) to secure and defend key cyber terrain at the base level.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
1. Cyberspace Vulnerability Assessment/Hunter(CVA/H)																																	
	1	2021	AF	435	0	435																											
	1	2022	AF	534	0	534																											
3. Cyberspace Defense Analysis (CDA)																																	
	2	2021	AF	1	0	1																											
	3	2022	AF	1	0	1																											
4. Weapon System Cyber Response (WSCR)																																	
	4	2021	AF	91	0	91																											
	4	2022	AF	294	0	294																											
5. Air Force Cyber Defense (ACD)																																	
	5	2021	AF	1	0	1																											
	5	2022	AF	1	0	1																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> AF Defensive Cyberspace Operations
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	550	0	0	0	0	0	1	6	3	9
2	CDO - DAYTON, OH				0	0	0	0	0	0	0	0	0
3	Various - Various	1	1	1	0	0	0	0	0	1	6	3	9
4	Various - Various	1	1	300	0	0	0	0	0	1	7	3	10
5	various - Various	1	1	1	1	0	0	0	0	1	6	3	9

**Remarks:**  
Note: MSR, ECON, and MAX are Not Applicable. Items procured are Commercial Off The Shelf (COTS).

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Unified Platform (UP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	4.956	4.904	5.013	-	5.013
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	4.956	4.904	5.013	-	5.013
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>4.956</b>	<b>4.904</b>	<b>5.013</b>	-	<b>5.013</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Unified Platform (UP) Cost</b>																		
Recurring Cost																		
Unified Platform (UP) <sup>(†)</sup>	-	-	-	1.452	2	2.905	2.030	1	2.030	3.342	1	3.342	-	-	-	3.342	1	3.342
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.905	-	-	2.030	-	-	3.342	-	-	-	-	-	3.342
<i>Subtotal: Hardware - Unified Platform (UP) Cost</i>	-	-	-	-	-	2.905	-	-	2.030	-	-	3.342	-	-	-	-	-	3.342
<b>Support - Unified Platform (UP) Cost</b>																		
Program Support Cost (PSC)	-	-	-	-	-	2.051	-	-	2.874	-	-	1.671	-	-	-	-	-	1.671
<i>Subtotal: Support - Unified Platform (UP) Cost</i>	-	-	-	-	-	2.051	-	-	2.874	-	-	1.671	-	-	-	-	-	1.671
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	4.956	-	-	4.904	-	-	5.013	-	-	-	-	-	5.013

**Remarks:**  
FY21 total amount of \$4.956M is incorrect due to database error. Actual FY21 total amount is \$3.156M and actual Hardware category total is \$1.105M.

Prior year Unified Platform (UP) reported quantity of 2 in order to indicate delivery of Cross Domain Solution hardware and software to 2 locations. The quantity of 1 listed for Unified Platform represents the sum procurement of various information technology hardware and software required to support Unified Platform.

<sup>(†)</sup> indicates the presence of a P-5a



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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Unified Platform (UP)
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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
Unified Platform (UP) <sup>(†)</sup>		2021	Various / Various	MIPR	AFLCMC/HN	Jul 2022	Aug 2022	2	1.452	Y		
Unified Platform (UP) <sup>(†)</sup>		2022	Various / Various	MIPR	AFLCMC/HN	Jul 2022	Aug 2022	1	2.030	Y		
Unified Platform (UP) <sup>(†)</sup>		2023	Various / Various	MIPR	AFLCMC/HN	Jul 2023	Aug 2023	1	3.342	Y		

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



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
		<b>Item Number / Title [DODIC]:</b> Unified Platform (UP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	0	0	0	0	0	1	10	1	11

**Remarks:**  
MSR, ECON, and MAX are Not Applicable. Items procured are Commercial Off The Shelf (COTS).

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Support to Information Operations (IO) Capabilities

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	1.226	1.160	-	1.160
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	1.226	1.160	-	1.160
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>0.000</b>	<b>1.226</b>	<b>1.160</b>	-	<b>1.160</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Support to Information Operations (IO) Capabilities Cost																		
Recurring Cost																		
Enterprise Network Modernization <sup>(t)</sup>	-	-	-	-	-	0.000	1.226	1	1.226	1.160	1	1.160	-	-	-	1.160	1	1.160
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	1.226	-	-	1.160	-	-	-	-	-	1.160
<i>Subtotal: Hardware - Support to Information Operations (IO) Capabilities Cost</i>	-	-	-	-	-	0.000	-	-	1.226	-	-	1.160	-	-	-	-	-	1.160
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	1.226	-	-	1.160	-	-	-	-	-	1.160

**Remarks:**

Note: Quantity 1 represents the sum procurement of various commercial-off-the-shelf(COTS) and government-off-the-shelf (GOTS) hardware and software required to support the Joint Information Operations Range.

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures				<b>Item Number / Title [DODIC]:</b> Support to Information Operations (IO) Capabilities				

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
Enterprise Network Modernization <sup>(†)</sup>		2022	Various / Various	PO	AFLCMC/HN	Mar 2022	Jun 2022	1	1.226	Y		
Enterprise Network Modernization <sup>(†)</sup>		2023	Various / Various	TBD	AFLCMC/HN	Mar 2023	Jun 2023	1	1.160	Y		

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

**Remarks:**

Note: Quantity 1 represents the sum procurement of various commercial-off-the-shelf(COTS) and government-off-the-shelf (GOTS) hardware and software required to support the Joint Information Operations Range.

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures										<b>Item Number / Title [DODIC]:</b> Support to Information Operations (IO) Capabilities									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2022										Fiscal Year 2023										BALANCE
O C 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	

Enterprise Network Modernization																																		
1	2022	AF		1	0	1																												0
1	2023	AF		1	0	1																												0

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
		<b>Item Number / Title [DODIC]:</b> Support to Information Operations (IO) Capabilities

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	1	6	3	9	0	0	0	0

**Remarks:**  
Note: MSR, ECON, and MAX are Not Applicable. Items procured are Commercial Off The Shelf (COTS).

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures						<b>Item Number / Title [DODIC]:</b> Cyber Operations Technology Support						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>												
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>				
Procurement Quantity ( <i>Units in Each</i> )				-		17		13		5		-		5				
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-		11.986		9.881		3.808		-		3.808				
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-				
Net Procurement (P-1) ( <i>\$ in Millions</i> )				-		11.986		9.881		3.808		-		3.808				
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-				
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				-		<b>11.986</b>		<b>9.881</b>		<b>3.808</b>		-		<b>3.808</b>				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares ( <i>\$ in Millions</i> )				-		-		-		-		-		-				
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )				-		0.705		0.760		0.762		-		0.762				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> ( <i>\$ M</i> )	<b>Qty</b> ( <i>Each</i> )	<b>Total Cost</b> ( <i>\$ M</i> )	<b>Unit Cost</b> ( <i>\$ M</i> )	<b>Qty</b> ( <i>Each</i> )	<b>Total Cost</b> ( <i>\$ M</i> )	<b>Unit Cost</b> ( <i>\$ M</i> )	<b>Qty</b> ( <i>Each</i> )	<b>Total Cost</b> ( <i>\$ M</i> )	<b>Unit Cost</b> ( <i>\$ M</i> )	<b>Qty</b> ( <i>Each</i> )	<b>Total Cost</b> ( <i>\$ M</i> )	<b>Unit Cost</b> ( <i>\$ M</i> )	<b>Qty</b> ( <i>Each</i> )	<b>Total Cost</b> ( <i>\$ M</i> )	<b>Unit Cost</b> ( <i>\$ M</i> )	<b>Qty</b> ( <i>Each</i> )	<b>Total Cost</b> ( <i>\$ M</i> )
Hardware - Hunt Forward Kit Cost																		
Recurring Cost																		
Kit <sup>(†)</sup>	-	-	-	0.687	17	11.686	0.737	13	9.581	0.702	5	3.508	-	-	-	0.702	5	3.508
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.686	-	-	9.581	-	-	3.508	-	-	-	-	-	3.508
<i>Subtotal: Hardware - Hunt Forward Kit Cost</i>	-	-	-	-	-	11.686	-	-	9.581	-	-	3.508	-	-	-	-	-	3.508
Support - PSC Cost																		
Program Support Costs (PSC)	-	-	-	-	-	0.300	-	-	0.300	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Support - PSC Cost</i>	-	-	-	-	-	0.300	-	-	0.300	-	-	0.300	-	-	-	-	-	0.300
<b>Gross/Weapon System Cost</b>	-	-	-	0.705	17	11.986	0.760	13	9.881	0.762	5	3.808	-	-	-	0.762	5	3.808
<b>Remarks:</b> 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.																		
(†) indicates the presence of a P-5a																		



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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Cyber Operations Technology Support
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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
Kit <sup>(†)</sup>		2021	Sealing Technologies, Inc. / Stevensville, MD	C / FFP	USCYBERCOM	Mar 2022	May 2022	17	0.687	Y		
Kit <sup>(†)</sup>		2022	Sealing Technologies, Inc. / Stevensville, MD	C / FFP	USCYBERCOM	Jun 2022	Oct 2022	13	0.737	Y		
Kit <sup>(†)</sup>		2023	Sealing Technologies, Inc. / Stevensville, MD	C / FFP	USCYBERCOM	Feb 2023	May 2023	5	0.702	Y		

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

**Remarks:**  
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.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C #	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
Kit																															
1		2021	AF	17	0	17																							0		
		2022	AF	13	0	13																							0		
		2023	AF	5	0	5																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Cyber Operations Technology Support
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Sealing Technologies, Inc. - Stevensville, MD	5	60	104	0	0	0	0	1	5	3	8

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Cyberspace Training

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	4.586	4.619	7.875	-	7.875
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	4.586	4.619	7.875	-	7.875
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>4.586</b>	<b>4.619</b>	<b>7.875</b>	-	<b>7.875</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - Cyberspace Training Cost</b>																		
<b>Recurring Cost</b>																		
Cyber Multi-Domain Architecture <sup>(t)</sup>	-	-	-	0.918	1	0.918	0.923	1	0.923	1.675	1	1.675	-	-	-	1.675	1	1.675
Cyber Test and training <sup>(t)</sup>	-	-	-	1.834	1	1.834	1.848	1	1.848	3.100	1	3.100	-	-	-	3.100	1	3.100
Cyber IQT-MQT <sup>(t)</sup>	-	-	-	1.834	1	1.834	1.848	1	1.848	3.100	1	3.100	-	-	-	3.100	1	3.100
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.586	-	-	4.619	-	-	7.875	-	-	-	-	-	7.875
<i>Subtotal: Hardware - Cyberspace Training Cost</i>	-	-	-	-	-	4.586	-	-	4.619	-	-	7.875	-	-	-	-	-	7.875
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	4.586	-	-	4.619	-	-	7.875	-	-	-	-	-	7.875

**Remarks:**  
Note: New PE beginning in FY21. Funding realigned from 0208087F Distributed Cyber Warfare Operations to clarify spending on Cyber Training systems.

The prior year quantities of 1 listed for Cyberspace Training represent the sum package of various information technology hardware and software required to support the Cyberspace Training capabilities in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the Cyberspace Training requirements.

<sup>(t)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Cyberspace Training
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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
Cyber Multi-Domain Architecture <sup>(†)</sup>		2021	Various / Various	Various	JBSA-Lackland	Feb 2021	Mar 2021	1	0.918	Y		
Cyber Multi-Domain Architecture <sup>(†)</sup>		2022	Various / Various	Various	JBSA-Lackland	Feb 2022	Mar 2022	1	0.923	Y		
Cyber Multi-Domain Architecture <sup>(†)</sup>		2023	Various / Various	TBD	JBSA-Lackland	Feb 2023	Mar 2023	1	1.675	Y		
Cyber Test and training <sup>(†)</sup>		2021	Various / Various	Various	JBSA-Lackland	Feb 2021	Mar 2021	1	1.834	Y		
Cyber Test and training <sup>(†)</sup>		2022	Various / Various	Various	JBSA-Lackland	Feb 2022	Mar 2022	1	1.848	Y		
Cyber Test and training <sup>(†)</sup>		2023	Various / Various	TBD	JBSA-Lackland	Feb 2023	Mar 2023	1	3.100	Y		
Cyber IQT-MQT <sup>(†)</sup>		2021	Various / Various	Various	JBSA-Lackland	Feb 2021	Mar 2021	1	1.834	Y		
Cyber IQT-MQT <sup>(†)</sup>		2022	Various / Various	Various	JBSA-Lackland	Feb 2022	Mar 2022	1	1.848	Y		
Cyber IQT-MQT <sup>(†)</sup>		2023	Various / Various	TBD	JBSA-Lackland	Feb 2023	Mar 2023	1	3.100	Y		

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

**Remarks:**

The prior year quantities of 1 listed for Cyberspace Training represent the sum package of various information technology hardware and software required to support the Cyberspace Training capabilities in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the Cyberspace Training requirements.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Cyberspace Training
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
Cyber Multi-Domain Architecture																															
	1	2021	AF	1	0	1																								0	
	1	2022	AF	1	0	1																								0	
	1	2023	AF	1	0	1																								1	
Cyber Test and training																															
	2	2021	AF	1	0	1																								0	
	2	2022	AF	1	0	1																								0	
	2	2023	AF	1	0	1																								1	
Cyber IQT-MQT																															
	3	2021	AF	1	0	1																								0	
	3	2022	AF	1	0	1																								0	
	3	2023	AF	1	0	1																								1	
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Cyberspace Training
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Cyber Multi-Domain Architecture																															
	1	2021	AF	1	1	0																							0		
	1	2022	AF	1	1	0																							0		
	1	2023	AF	1	0	1																							0		
Cyber Test and training																															
	2	2021	AF	1	1	0																							0		
	2	2022	AF	1	1	0																							0		
	2	2023	AF	1	0	1																							0		
Cyber IQT-MQT																															
	3	2021	AF	1	1	0																							0		
	3	2022	AF	1	1	0																							0		
	3	2023	AF	1	0	1																							0		

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Item Number / Title [DODIC]:</b> Cyberspace Training
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	1	5	1	6	0	0	0	0
2	Various - Various	1	1	1	1	5	1	6	0	0	0	0
3	Various - Various	1	1	1	1	5	1	6	0	0	0	0

**Remarks:**  
Note: MSR, ECON, Max are not applicable. Items procured are Commercial Off The Shelf (COTS) items.

The prior year quantities of 1 listed for Cyberspace Training represent the sum package of various information technology hardware and software required to support the Cyberspace Training capabilities in a given year. The composition of procured items will vary from year-to-year and site-to-site to achieve the Cyberspace Training requirements.

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

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



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

**Line Item MDAP/MAIS Code:** N86

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	15.240	0.000	-	0.000	0.000	0.000	0.000	0.000	-	15.240
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	15.240	0.000	-	0.000	0.000	0.000	0.000	0.000	-	15.240
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>15.240</b>	<b>0.000</b>	-	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>15.240</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in 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 that will integrate existing personnel and pay processes into one self-service system. AFIPPS supports how the Air Force owns and operates the Human Resource Management domain and is a component of the AF/A1 digital transformation journey, currently underway. AFIPPS continues the transformation by providing an accurate and single authoritative source of personnel data to ensure timely delivery of pay, entitlements, allowances, and benefits to all Active Duty Air and Space Force, National Guard (ANG), and Reserve (AFRes) components. AFIPPS represents the DAF's commitment to modernize business practices and provide enhanced support to service members and their families by integrating personnel and pay systems. AFIPPS will eliminate DAF reliance on the unsustainable Defense Finance and Accounting System (DFAS) and the Defense Joint Military Pay System (DJMS) for payroll processing and will ensure improved auditability of service member pay.

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

Funding for this exhibit is contained in PE 0901250F.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

**Line Item MDAP/MAIS Code:** N86

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Integrated Personnel and Pay System	P-5a, P-21	A		- / -	- / -	1 / 15.240	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 0.000	- / 15.240	- / 0.000	- / -	- / 0.000

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

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

**Justification:**  
No FY 2023 funding requested.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834410 / Integrated Personnel and Pay System	<b>Item Number / Title [DODIC]:</b> Integrated Personnel and Pay System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	1	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	15.240	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	15.240	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	<b>15.240</b>	-	-	-

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	15.240	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>
Software - Integrated Personnel and Pay System Cost																		
Non Recurring Cost																		
Initial Software License Procurement/ End User Software License <sup>(t)</sup>	-	-	-	-	-	-	15.240	1	15.240	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	15.240	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - Integrated Personnel and Pay System Cost</i>	-	-	-	-	-	-	-	-	15.240	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	15.240	1	15.240	-	-	-	-	-	-	-	-	-

<sup>(t)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834410 / Integrated Personnel and Pay System	<b>Item Number / Title [DODIC]:</b> Integrated Personnel and Pay System
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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 Software License Procurement/End User Software License <sup>(†)</sup>		2022	AFFIGENT LLC / Herndon, VA	C / FFP	AFLCMC/Hi - Business & Enterprise Systems	Apr 2022	Jun 2022	1	15.240	Y		Jan 2022

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834410 / Integrated Personnel and Pay System **Item Number / Title [DODIC]:** Integrated Personnel and Pay System

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C 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
Initial Software License Procurement/End User Software License																															
	1	2022	AF	1	0	1												A	-	-											0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834410 / Integrated Personnel and Pay System	<b>Item Number / Title [DODIC]:</b> Integrated Personnel and Pay System
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	AFFIGENT LLC - Herndon, VA	1	1	1	1	7	2	9	0	0	0	0

**Remarks:**  
FY 2022 funds are procuring payroll COTS software licenses for end users. All licenses are available and will be delivered to the government when contractual agreements are met; May 2022.

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	3.959	0.786	-	0.786	0.000	4.416	5.673	5.785	-	20.619
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	3.959	0.786	-	0.786	0.000	4.416	5.673	5.785	-	20.619
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>3.959</b>	<b>0.786</b>	-	<b>0.786</b>	<b>0.000</b>	<b>4.416</b>	<b>5.673</b>	<b>5.785</b>	-	<b>20.619</b>

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

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

**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 it is also being used to 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)).

PE 0708012F LOGISTICS SUPPORT ACTIVITIES

Reliability, Availability, Maintainability for Pods (RAMPOD) is an integrated weapons management information system that collects, reports, and maintains real-time reliability, availability, maintainability, configuration, warranty, system on-time, inventory, performance, sortie and engineering parametric data for all externally carried electronic combat pods and avionics pods. OPAF funding will be used to purchase servers and accessory equipment for a technical refresh of the RAMPOD Development, Test and operational environments. Funding may also be used to procure various types/amounts of software in support of unit mission requirements for Air Force personnel.

Funding for this exhibit contained in PE 0708610F and 0708012F.

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** N/A

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Logistics Support Activities	P-5a, P-21	A		- / -	- / 0.000	- / 0.000	1 / 0.786	- / -	1 / 0.786
P-5	Logistics Information Technology (LOGIT)	P-5a, P-21	A		- / -	- / 0.000	- / 3.959	1 / 0.000	- / -	1 / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>- / 3.959</b>	<b>- / 0.786</b>	<b>- / -</b>	<b>- / 0.786</b>

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

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

**Justification:**  
 This program, PE 0708012F P-5, is a new start.  
  
 PE 0708012F LOGISTICS SUPPORT ACTIVITIES  
  
 FY 2023 OPAF funding will be used to purchase servers and accessories for a technical refresh of the RAMPOD Development, Test and operational environments at Robin AFB. Funding may also be used to procure various types/amounts of software in support of unit mission requirements for Air Force personnel, as required.  
  
 PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)  
  
 No Budget Year FY23 funding requested.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos	<b>Item Number / Title [DODIC]:</b> Logistics Support Activities
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	0.786	-	0.786
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	0.786	-	0.786
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>0.786</b>	-	<b>0.786</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	0.786	-	0.786

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Logistics Support Activities Cost																		
Non Recurring Cost																		
RAMPOD Servers <sup>(t)</sup>	-	-	-	-	-	0.000	-	-	0.000	0.786	1	0.786	-	-	-	0.786	1	0.786
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.786	-	-	-	-	-	0.786
<i>Subtotal: Hardware - Logistics Support Activities Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.786	-	-	-	-	-	0.786
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	0.786	1	0.786	-	-	-	0.786	1	0.786

<sup>(t)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos	<b>Item Number / Title [DODIC]:</b> Logistics Support Activities
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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
RAMPOD Servers <sup>(†)</sup>		2023	S&K Mission Support, LLC (SKMS) / Warner Robins, GA	C / FFP	AFLCMC/HI - Business & Enterprise Systems	Jan 2023	Mar 2023	1	0.786	Y	Dec 2022	

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

**Remarks:**  
RAMPOD is purchasing multiple COTS servers (up to 14) and accessories on one buy. The quantities, equipment and miscellaneous accessories will depend on the technical solution.

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos	<b>Item Number / Title [DODIC]:</b> Logistics Support Activities
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
RAMPOD Servers																																			
	1	2023	AF	1	0	1					A	-	-		1																	0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos	<b>Item Number / Title [DODIC]:</b> Logistics Support Activities
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	S&K Mission Support, LLC (SKMS) - Warner Robins, GA	1	1	1	1	4	2	6	0	0	0	0

**Remarks:**  
 RAMPOD is purchasing multiple COTS servers (up to 14) and accessories on one buy. The quantities, equipment and miscellaneous accessories will depend on the technical solution. COTS servers will not require specialized manufacturing and should all be available for delivery in March 2023.

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos	<b>Item Number / Title [DODIC]:</b> Logistics Information Technology (LOGIT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	1	-	1
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	3.959	0.000	-	0.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	3.959	0.000	-	0.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>0.000</b>	<b>3.959</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Software - Logistics Information Technology (LOGIT) Cost																		
Non Recurring Cost																		
FLITES Software Licenses <sup>(†)</sup>	-	-	-	-	-	0.000	0.001	5,700	3.959	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	3.959	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Software - Logistics Information Technology (LOGIT) Cost</i>	-	-	-	-	-	0.000	-	-	3.959	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	3.959	0.000	1	0.000	-	-	-	0.000	1	0.000

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos				<b>Item Number / Title [DODIC]:</b> Logistics Information Technology (LOGIT)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
FLITES Software Licenses <sup>(†)</sup>		2022	OneNetwork / WPAFB, OH	C / FFPLOE	AFLCMC/HI - Business & Enterprise Systems	Jul 2022	Aug 2022	5,700	0.001	Y		

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force																<b>Date:</b> April 2021																	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos										<b>Item Number / Title [DODIC]:</b> Logistics Information Technology (LOGIT)													

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C 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

FLITES Software Licenses																												0					
1	2022	AF		5,700	0	5,700													A -	5,700													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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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos
		<b>Item Number / Title [DODIC]:</b> Logistics Information Technology (LOGIT)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	OneNetwork - WPAFB, OH	1	6,000	6,000	1	10	1	11	0	0	0	0

**Remarks:**  
FY 2022 funding will be used to purchase end user COTS software licenses for deployment of MVP1. All licenses will be available for delivery immediately once contractual agreements are met.

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

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



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting & Mgt Sys
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0901554F
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**Line Item MDAP/MAIS Code:** N87

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	1.078	3.103	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.181
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1.078	3.103	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.181
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>1.078</b>	<b>3.103</b>	<b>0.000</b>	-	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>4.181</b>

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

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

**Description:**

Starting FY 2023, 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 is preparing to transition 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 requires 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.

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

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 for this exhibit contained in PE 0608920F.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Defense Enterprise Acntng and Mgt Sys (DEAMS)	P-5a, P-21	A		- / -	- / 1.078	- / 3.103	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 1.078</b>	<b>- / 3.103</b>	<b>- / 0.000</b>	<b>- / -</b>	<b>- / 0.000</b>

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

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

**Justification:**  
Starting in FY 2023, funding transferred to PE 0608920F, Defense Accounting and Management System (DEAMS), Project Number 685178, DEAMS Continuous Capability Development.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting & Mgt Sys	<b>Item Number / Title [DODIC]:</b> Defense Enterprise Acntng and Mgt Sys (DEAMS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	1.078	3.103	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.078	3.103	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>1.078</b>	<b>3.103</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Software - Defense Enterprise Acntng and Mgt Sys (DEAMS) Cost																		
Recurring Cost																		
Hardware/Software <sup>(†)</sup>	-	-	-	0.001	1,242	1.078	0.001	3,000	3.103	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.078	-	-	3.103	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Software - Defense Enterprise Acntng and Mgt Sys (DEAMS) Cost</i>	-	-	-	-	-	1.078	-	-	3.103	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	1.078	-	-	3.103	-	-	0.000	-	-	-	-	-	0.000

**Remarks:**

Starting FY 2023, funding transferred to PE 0608920F, Defense Accounting and Management System (DEAMS), Project Number 685178, DEAMS Continuous Capability Development, to participate in the DoD's Software & Digital Technology Pilot Program

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting & Mgt Sys				<b>Item Number / Title [DODIC]:</b> Defense Enterprise Acntng and Mgt Sys (DEAMS)				

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
Hardware/Software <sup>(†)</sup>		2021	V3GATE, LLC. / CO	SS / FFP	AFLCMC/HI - Business & Enterprise Systems	Nov 2020	Nov 2020	1,242	0.001	Y		
Hardware/Software <sup>(†)</sup>		2022	V3GATE, LLC. / CO	SS / FFP	AFLCMC/HI - Business & Enterprise Systems	Sep 2022	Nov 2022	3,000	0.001	Y		

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting & Mgt Sys										<b>Item Number / Title [DODIC]:</b> Defense Enterprise Acntng and Mgt Sys (DEAMS)									

O C C O		M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Fiscal Year 2021														Fiscal Year 2022										B A L A N C E
								Calendar Year 2021														Calendar Year 2022										
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
Hardware/Software																																
1	2021	AF		1,242	0	1,242		A1,242																					0			
1	2022	AF		3,000	0	3,000																						A -	3,000			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting & Mgt Sys										<b>Item Number / Title [DODIC]:</b> Defense Enterprise Acntng and Mgt Sys (DEAMS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Hardware/Software																																	
	1	2021	AF	1,242	1,242	0																								0			
	1	2022	AF	3,000	0	3,000	-	3,000																						0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting & Mgt Sys
		<b>Item Number / Title [DODIC]:</b> Defense Enterprise Acntng and Mgt Sys (DEAMS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	V3GATE, LLC. - CO	1	5,000	5,000	1	12	2	14	0	0	0	0

**Remarks:**  
 FY 2021 & FY 2022 funding procures COTS software licenses for developed software. For FY 2023, see PE 0608920F, Defense Accounting and Management System (DEAMS), Project Number 675178, DEAMS Continuous Capability Development.

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.966	0.000	4.387	0.248	-	0.248	0.000	0.000	0.000	0.000	-	5.601
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.966	0.000	4.387	0.248	-	0.248	0.000	0.000	0.000	0.000	-	5.601
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.966</b>	<b>0.000</b>	<b>4.387</b>	<b>0.248</b>	-	<b>0.248</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>5.601</b>

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

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

**Description:**

**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 report, interface, conversion, extension, and workflow (RICE-W) objects.

MROi will implement throughout all AFSC commodities, electronics, missile, propulsion, aircraft, software, 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 is using 3080 funding to purchase various software licenses in support of the MROi capability currently under development (RDT&E).

IOT&E scheduled to start fourth quarter 2024.

Funding for this exhibit is contained in PE 0708055F.

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-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Maintenance Repair & Overhaul Initiative	P-5a, P-21	B		- / 0.966	- / 0.000	- / 4.387	- / 0.248	- / -	- / 0.248
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.966</b>	<b>- / 0.000</b>	<b>- / 4.387</b>	<b>- / 0.248</b>	<b>- / -</b>	<b>- / 0.248</b>

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

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

**Justification:**  
 FY 2023 funds support the acquisition of approximately 240 end user licenses.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834480 / Maintenance Repair & Overhaul Initiative	<b>Item Number / Title [DODIC]:</b> Maintenance Repair & Overhaul Initiative

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.966	0.000	4.387	0.248	-	0.248
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.966	0.000	4.387	0.248	-	0.248
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.966</b>	<b>0.000</b>	<b>4.387</b>	<b>0.248</b>	<b>-</b>	<b>0.248</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Software - Maintenance Repair Cost</b>																		
Non Recurring Cost																		
EBS Licenses <sup>(t)</sup>	0.966	1	0.966	-	-	0.000	0.001	4,000	4.387	0.001	240	0.248	-	-	-	0.001	240	0.248
<i>Subtotal: Non Recurring Cost</i>	-	-	0.966	-	-	0.000	-	-	4.387	-	-	0.248	-	-	-	-	-	0.248
<i>Subtotal: Software - Maintenance Repair Cost</i>	-	-	<b>0.966</b>	-	-	<b>0.000</b>	-	-	<b>4.387</b>	-	-	<b>0.248</b>	-	-	-	-	-	<b>0.248</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.966</b>	-	-	<b>0.000</b>	-	-	<b>4.387</b>	-	-	<b>0.248</b>	-	-	-	-	-	<b>0.248</b>

**Remarks:**  
FY 2022 funds support the acquisition of approximately 4000 end user licenses. FY 2023 funds support the acquisition of approximately 240 end user licenses.

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834480 / Maintenance Repair & Overhaul Initiative	<b>Item Number / Title [DODIC]:</b> Maintenance Repair & Overhaul Initiative
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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
EBS Licenses <sup>(†)</sup>		2022	V3GATE, LLC / Colorado Springs, Colorado	TBD	AFLCMC/HI - Business & Enterprise Systems	Aug 2023	Aug 2023	4,000	0.001	N	Jul 2023	
EBS Licenses <sup>(†)</sup>		2023	V3GATE, LLC / Colorado Springs, Colorado	TBD	AFLCMC/HI - Business & Enterprise Systems	Aug 2023	Aug 2023	240	0.001	N	Jul 2023	

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

**Remarks:**  
FY 2022 funds support the acquisition of approximately 4000 end user licenses. FY 2023 funds support the acquisition of approximately 240 end user licenses.

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834480 / Maintenance Repair & Overhaul Initiative	<b>Item Number / Title [DODIC]:</b> Maintenance Repair & Overhaul Initiative
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024													
							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	
EBS Licenses																																
Prior Years Deliveries: 1																																
	1	2022	AF	4,000	0	4,000													A4,000													0
	1	2023	AF	240	0	240													A240													0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834480 / Maintenance Repair & Overhaul Initiative	<b>Item Number / Title [DODIC]:</b> Maintenance Repair & Overhaul Initiative
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	V3GATE, LLC - Colorado Springs, Colorado	1	5,000	5,000	1	11	0	11	1	0	0	0

**Remarks:**  
FY 2022 and FY 2023 funds are being used to procure COTS software licenses. All licenses will be available for delivery immediately once contractual agreements are met.

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2.958	1.982	4.052	0.275	-	0.275	0.399	0.432	0.444	0.453	-	10.995
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2.958	1.982	4.052	0.275	-	0.275	0.399	0.432	0.444	0.453	-	10.995
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2.958</b>	<b>1.982</b>	<b>4.052</b>	<b>0.275</b>	-	<b>0.275</b>	<b>0.399</b>	<b>0.432</b>	<b>0.444</b>	<b>0.453</b>	-	<b>10.995</b>

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

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

**Description:**

PE 0207438F, Theater Battle Management (TBM) C4I

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 provided 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 was 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 was part of the overarching Kessel Run portfolio.

PE 0305984F, Personnel Recovery Command and Control (PRC2)

2. 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.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Theater Battle Management (TBM) C4I	P-5a, P-21	A		- / 1.635	1 / 1.635	1 / 3.683	- / 0.000	- / -	- / 0.000
P-3a	1 / PRC2 (Capability Improvement)		A		- / 0.323	- / 0.347	- / 0.369	- / 0.275	- / 0.000	- / 0.275
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 2.958</b>	<b>- / 1.982</b>	<b>- / 4.052</b>	<b>- / 0.275</b>	<b>- / -</b>	<b>- / 0.275</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Theater Battle Management (TBM) C4I	P-5a, P-21	A		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / PRC2 (Capability Improvement)		A		- / 0.399	- / 0.432	- / 0.444	- / -	- / -	- / 2.589
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.399</b>	<b>- / 0.432</b>	<b>- / 0.444</b>	<b>- / 0.453</b>	<b>- / -</b>	<b>- / 10.995</b>

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

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

**Justification:**  
 PE 0207438F, Theater Battle Management (TBM) C4I

1. TBMCS FL: Provided 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 included 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.

No FY23 funding requested.

PE 0305984F, Personnel Recovery Command and Control (PRC2)

2. 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.

a. PRC2 HARDWARE AND COTS SOFTWARE: FY23 funding will continue to procure various hardware pieces and software licenses for fielding to the 517th Software Engineering Squadron (SWES) Development Network (DevNet).

b. PRC2 PMA: FY23 funding will provide for government program oversight, technical expertise, and program office support associated with the PRC2 fielding.

**Efforts with funding starting in FY 2024 through FY 2027 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:**



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

(a) FY 2027 Cost Delta: 0.453 million  
(b) FY Total Cost Delta: 7.406 million

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System	<b>Item Number / Title [DODIC]:</b> Theater Battle Management (TBM) C4I

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	-	1	1	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.635	1.635	3.683	0.000	-	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1.635	1.635	3.683	0.000	-	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.635</b>	<b>1.635</b>	<b>3.683</b>	<b>0.000</b>	<b>-</b>	<b>0.000</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	1.635	3.683	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Theater Battle Management (TBM) C4I Cost																		
Non Recurring Cost																		
Capital Equipment Refresh <sup>(†)</sup>	1.635	1	1.635	1.000	1	1.000	2.683	1	2.683	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	1.635	-	-	1.000	-	-	2.683	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - Theater Battle Management (TBM) C4I Cost</i>	-	-	1.635	-	-	1.000	-	-	2.683	-	-	0.000	-	-	-	-	-	0.000
Support - Theater Battle Management (TBM) C4I Cost																		
PMA Contractor Services <sup>(†)</sup>	-	-	-	-	-	0.000	0.500	1	0.500	-	-	0.000	-	-	-	-	-	0.000
DMS Contractor Services <sup>(†)</sup>	-	-	-	0.635	1	0.635	0.500	1	0.500	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Theater Battle Management (TBM) C4I Cost</i>	-	-	-	-	-	0.635	-	-	1.000	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	1.635	1.635	1	1.635	3.683	1	3.683	-	-	0.000	-	-	-	-	-	0.000

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System	<b>Item Number / Title [DODIC]:</b> Theater Battle Management (TBM) C4I
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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
Capital Equipment Refresh <sup>(†)</sup>		2021	Various / Various	Various	AFLCMC Hanscom AFB	Aug 2022	Sep 2022	1	1.000	Y	Jul 2022	
Capital Equipment Refresh <sup>(†)</sup>		2022	Various / Various	Various	AFLCMC Hanscom AFB	Aug 2022	Sep 2022	1	2.683	Y	Jul 2022	
PMA Contractor Services		2022	Various / Various	Various	Hanscom AFB	Aug 2022	Sep 2022	1	0.500	Y		
DMS Contractor Services		2021	Various / Various	Various	Hanscom AFB	Aug 2022	Sep 2022	1	0.635	Y		
DMS Contractor Services		2022	Various / Various	Various	Hanscom AFB	Aug 2022	Sep 2022	1	0.500	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System	<b>Item Number / Title [DODIC]:</b> Theater Battle Management (TBM) C4I
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												B A L A N C E	
O C 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
Capital Equipment Refresh																															
Prior Years Deliveries: 1																															
	1	2021	AF		1	0	1																							0	
	1	2022	AF		1	0	1																							0	
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System				<b>Item Number / Title [DODIC]:</b> Theater Battle Management (TBM) C4I				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	1	11	1	12	0	0	0	0

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

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

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System	<b>Modification Number / Title:</b> 1 / PRC2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.323	0.347	0.369	0.275	0.000	0.275	0.399	0.432	0.444	-	-	2.589
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.323	0.347	0.369	0.275	0.000	0.275	0.399	0.432	0.444	-	-	2.589
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.323</b>	<b>0.347</b>	<b>0.369</b>	<b>0.275</b>	<b>0.000</b>	<b>0.275</b>	<b>0.399</b>	<b>0.432</b>	<b>0.444</b>	-	-	<b>2.589</b>

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

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

**Description:**

Provides Personnel Recovery Command and Control (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 Air Operations Center (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. PRC2 procurement funding satisfies the requirement of the hardware and software needs for the Development Network (DevNet) utilized by the Organic Depot that develops PRC2 applications. Additionally, provides logistics support to manage the DevNet.

**Milestone/Development Status**

Personnel Recovery Command and Control (PRC2) is a cloud-based architecture providing database and web-based services and tools to host Personnel Recovery applications. PRC2 is a designated Platform Information Technology (PIT) system with two PIT software components.

PRC2 has two major web applications designed to operate independently from each other: (1) Personnel Recovery Mission Software (1) Personnel Recovery Mission Software (PRMS) and (2) Personnel Recovery Mission Manager (PRMM). PRMM 2.0 is past IOC and PRMM 3.0 is currently in development. These applications perform a special-purpose war fighting mission that supports Personnel Recovery (PR) operations. The applications aid in rescuing Isolated Personnel (IP) from hostile forces. PRC2 resources consist of Commercial off-the-shelf (COTS) and Government off-the-shelf (GOTS) developed software.

Utilizes organic labor from 517th Software Engineering Squadron (SWES) at Hill AFB, UT. Funds will continue to sustain virtual data centers, developmental network data centers, and miscellaneous hardware and software sustainment and upgrades.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System						<b>Modification Number / Title:</b> 1 / PRC2		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> PRC2				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b>				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> PRC2 Hardware & COTS Software												
A Kits												
Recurring												
PRC2 Hardware & COTS Software:INSTALL KITS Group A (Active)	- / 0.323	- / 0.347	- / 0.369	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.039
<i>Subtotal: Recurring</i>	- / 0.323	- / 0.347	- / 0.369	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.039
<i>Subtotal: PRC2 Hardware &amp; COTS Software</i>	- / 0.323	- / 0.347	- / 0.369	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.039
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.323	- / 0.347	- / 0.369	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.039
<b>Support (All Modification Items)</b>												
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.275	- / -	- / 0.275	- / 0.399	- / 0.432	- / 0.444	- / -	- / -	- / 1.550
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 0.275	- / -	- / 0.275	- / 0.399	- / 0.432	- / 0.444	- / -	- / -	- / 1.550
<b>Installation</b>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.323</b>	<b>0.347</b>	<b>0.369</b>	<b>0.275</b>	<b>0.000</b>	<b>0.275</b>	<b>0.399</b>	<b>0.432</b>	<b>0.444</b>	<b>-</b>	<b>-</b>	<b>2.589</b>

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force						<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4			<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System			<b>Modification Number / Title:</b> 1 / PRC2	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 1:</b> PRC2 Hardware & COTS Software							
<b>Manufacturer Information</b>							
Manufacturer Name: 517th Software Engineering Squadron (517 SWES)				Manufacturer Location: Hill AFB, UT			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates							
Delivery Dates							
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	15.383	23.019	2.611	-	2.611	3.167	2.899	2.980	3.039	-	53.098
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	15.383	23.019	2.611	-	2.611	3.167	2.899	2.980	3.039	-	53.098
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>15.383</b>	<b>23.019</b>	<b>2.611</b>	-	<b>2.611</b>	<b>3.167</b>	<b>2.899</b>	<b>2.980</b>	<b>3.039</b>	-	<b>53.098</b>

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

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

**Description:**

PE 0207410F Air Operations Center Weapon System - P-40A

1. 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.

2. OPAF in PE 0207410F, WSC 834530, will fund Capital Equipment Replacement (CER) of on-premise equipment in the Operational Support Facility (OSF) and Combined AOC - Experimental (CAOC-X). Additionally, funds may be used to evaluate and implement new Command and Control (C2) Enterprise Comm-IT capabilities.

PE 0303248F, All Domain Common Platform (ADCP) - P-40A

3. The ADCP is an extensible hybrid cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient C2 mission applications and data to Airmen deployed around the world.

4. OPAF in PE 0303248F, WSC 834530 will fund lead command capabilities for the C2 Enterprise Network Operations Center/Security Operations Center (NOC/SOC) at the Operations Support Facility (OSF), Langley AFB, VA and Global C2 Network (GC2N) digital infrastructure. The primary mission of the C2 Enterprise NOC/SOC will be protection of the GC2N used to distribute and access applications and data across the AOC Enterprise via a Multi-Site Capability (MSC) Commercial Solutions for Classified (CSfC) architecture that includes dedicated connectivity from AOC sites to the ADCP servers across multiple communication pathways.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	11.427	23.019	2.611	-	2.611	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force							<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects					<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Center (AOC)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.198	0.000	0.000	-	0.000	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.758	0.000	0.000	-	0.000	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>15.383</b>	<b>23.019</b>	<b>2.611</b>	-	<b>2.611</b>	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Air & Space Operations Center (AOC)	P-5a, P-21	A		- / -	- / 15.383	- / 23.019	- / 2.611	- / -	- / 2.611
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 15.383	- / 23.019	- / 2.611	- / -	- / 2.611

\*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:**  
 PE 0207410F Air Operations Center Weapon System - P-40A

1. Capital Equipment Replacement (CER). FY23 834530 funds will support CER of On-Premise equipment in the Operational Support Facility (OSF) and Combined AOC - Experimental (CAOC-X) site.
2. Additionally, funds may be used to evaluate and implement new Comm-IT capabilities supporting the AOC/C2 Enterprise including:
  - 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:
    - Zero Trust end-point technology,
    - 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 capabilities.

PE 0303248F, All Domain Common Platform - P-40A

FY23 834530 OPAF in PE 0303248 will fund lead command Comm-IT capabilities for the Enterprise NOC/SOC at the OSF, Langley AFB, VA and GC2N digital infrastructure projects. Planned procurement activities include:

- a. Infrastructure to build out the NOC/SOC capability for 24/7/365 mission support.
- b. An enhanced situational awareness display system for continuous performance monitoring GC2N comm circuits and equipment used across the AOC Enterprise.
- c. Additional MSC CSfC equipment for the GC2N.
- d. Tools and engineering technical services to establish a capability to store and document all security incidents and provide centralized source of information for NOC/SOC staff.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4				<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Center (AOC)			<b>Item Number / Title [DODIC]:</b> Air & Space Operations Center (AOC)		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	15.383	23.019	2.611	-	2.611
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	15.383	23.019	2.611	-	2.611
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>15.383</b>	<b>23.019</b>	<b>2.611</b>	-	<b>2.611</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
1.a.1. CAPITAL EQUIPMENT REPLACEMENT: GEOGRAPHIC/GLOBAL (formerly known as Functional) AOC - AD	-	-	-	4.391	1	4.391	7.771	1	7.771	-	-	0.000	-	-	-	-	-	0.000
1.a.2. CAPITAL EQUIPMENT REPLACEMENT: AOC SUPPORT SITES - AD	-	-	-	2.195	1	2.195	3.885	1	3.885	-	-	0.000	-	-	-	-	-	0.000
1.a.3. CAPITAL EQUIPMENT REPLACEMENT: AOC EXPERIMENTAL SITES - AD	-	-	-	2.208	1	2.208	2.224	1	2.224	-	-	2.611	-	-	-	-	-	2.611
1.a.4. CAPITAL EQUIPMENT REPLACEMENT - RESERVE <sup>(1)</sup>	-	-	-	0.878	1	0.878	1.554	1	1.554	-	-	0.000	-	-	-	-	-	0.000
1.a.5. CAPITAL EQUIPMENT REPLACEMENT - GUARD	-	-	-	2.195	1	2.195	3.886	1	3.886	-	-	0.000	-	-	-	-	-	0.000

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Center (AOC)						<b>Item Number / Title [DODIC]:</b> Air & Space Operations Center (AOC)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1.b.1. BASELINE RELEASE: AOC SITES - AD	-	-	-	0.912	1	0.912	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
1.b.2. BASELINE RELEASE: SUPPORT SITES - AD	-	-	-	0.913	1	0.913	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
1.c. FIELDING SPO SUPPORT	-	-	-	-	-	1.150	2.739	1	2.739	-	-	0.000	-	-	-	-	-	0.000
1.d. TEST SUPPORT (46 TS)	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	14.842	-	-	22.059	-	-	2.611	-	-	-	-	-	2.611
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	14.842	-	-	22.059	-	-	2.611	-	-	-	-	-	2.611
Support - Support End Item Cost																		
2.a. PROGRAM MANAGEMENT: PROGRAM SUPPORT	-	-	-	-	-	0.541	-	-	0.960	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.541	-	-	0.960	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	15.383	-	-	23.019	-	-	2.611	-	-	-	-	-	2.611

**Remarks:**

- Due to different levels of complexity, differences in equipment to be updated, and length of required time necessary for modification, the total cost will fluctuate between fiscal years.
- Differences in site specific setup (due to variations between mission specific needs and differences in site type i.e., Geographic vs. Global (formally known as Functional) vs. Associated Support Site vs. Air Reserve Component Sites) will drive differences in site specific requirements (e.g., time required, hardware required and software required). This makes quantification impossible, as there is no single baseline to produce a quantity against. Per DoD Financial Regulation 7000.14-R, Volume 2B, Chapter 4, Exhibit P-5 Instruction, the quantities in the P-5 would be left blank as there is no way to report applicable quantities however in order to generate the P5A and P21 each element has been marked as "1".

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	11.427	23.019	2.611	-	2.611
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	2.198	0.000	0.000	-	0.000
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	1.758	0.000	0.000	-	0.000
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force				<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Center (AOC)		<b>Item Number / Title [DODIC]:</b> Air & Space Operations Center (AOC)		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	15.383	23.019	2.611	-	2.611

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Center (AOC)	<b>Item Number / Title [DODIC]:</b> Air & Space Operations Center (AOC)
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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
1.a.4. CAPITAL EQUIPMENT REPLACEMENT - RESERVE <sup>(†)</sup>		2021	Various / Various	Various	Hanscom AFB	Jul 2022	Aug 2022	1	0.878	Y		
1.a.4. CAPITAL EQUIPMENT REPLACEMENT - RESERVE <sup>(†)</sup>		2022	Various / Various	Various	Hanscom AFB	Jul 2023	Aug 2023	1	1.554	Y		

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

**Remarks:**

- 1). Due to different levels of complexity, differences in equipment to be updated, and length of required time necessary for modification, the total cost will fluctuate between fiscal years.
- 2). Differences in site specific setup (due to variations between mission specific needs and differences in site type i.e., Geographic vs. Global (formally known as Functional) vs. Associated Support Site vs. Air Reserve Component Sites) will drive differences in site specific requirements (e.g., time required, hardware required and software required). This makes quantification impossible, as there is no single baseline to produce a quantity against. Per DoD Financial Regulation 7000.14-R, Volume 2B, Chapter 4, Exhibit P-5 Instruction, the quantities in the P-5 would be left blank as there is no way to report applicable quantities however in order to generate the P5A and P21 each element has been marked as "1".

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force																				<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4										<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Center (AOC)										<b>Item Number / Title [DODIC]:</b> Air & Space Operations Center (AOC)					

Cost Elements (Units in Each)						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP
1.a.4. CAPITAL EQUIPMENT REPLACEMENT - RESERVE																															
1		2021	AF	1	0	1																						0			
1		2022	AF	1	0	1																						0			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Center (AOC)	<b>Item Number / Title [DODIC]:</b> Air & Space Operations Center (AOC)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	1	22	1	23	0	0	0	0

**Remarks:**

- 1). Due to different levels of complexity, differences in equipment to be updated, and length of required time necessary for modification, the total cost will fluctuate between fiscal years.
  - 2). Differences in site specific setup (due to variations between mission specific needs and differences in site type i.e., Geographic vs. Global (formally known as Functional) vs. Associated Support Site vs. Air Reserve Component Sites) will drive differences in site specific requirements (e.g., time required, hardware required and software required). This makes quantification impossible, as there is no single baseline to produce a quantity against. Per DoD Financial Regulation 7000.14-R, Volume 2B, Chapter 4, Exhibit P-5 Instruction, the quantities in the P-5 would be left blank as there is no way to report applicable quantities however in order to generate the P5A and P21 each element has been marked as "1".
- "A" in the Delivery Schedule indicates the Contract Award Date.
- Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	74.322	19.144	58.499	29.791	-	29.791	143.997	155.502	66.022	67.322	-	614.599
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	74.322	19.144	58.499	29.791	-	29.791	143.997	155.502	66.022	67.322	-	614.599
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>74.322</b>	<b>19.144</b>	<b>58.499</b>	<b>29.791</b>	-	<b>29.791</b>	<b>143.997</b>	<b>155.502</b>	<b>66.022</b>	<b>67.322</b>	-	<b>614.599</b>

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

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

**Description:**

BASE 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 war-fighter 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.

BITI RESET: A comprehensive, holistic modernization of the Base Area Network wired, wireless (80.11) SIPR, VoIP and 5G LTE infrastructure, along with a bandwidth increase of the base boundary (Service Delivery Point router upgraded to dual 10 GB connection). BITI RESET will utilize best-of-breed, cutting-edge commercial off the shelf (COTS) equipment to provide an IT infrastructure that can support growing Air Force IT demands and requirements for both NIPR and SIPR. By providing a more automated and unified wired and wireless infrastructure, the Air Force will reduce the Mean Time to Repair for IT related issues, which will allow current comm squadron members to transition to Mission Defense Teams (MDTs) without impact to network performance. BITI RESET will provide a base network that re-mediate current bandwidth and performance issues experienced Air Force wide.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0303004F, 0303112F

**Line Item MDAP/MAIS Code:** N78

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 0303004F. Prior to FY21, funding for this exhibit was contained in 0303112F.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.144	56.499	27.354	-	27.354	79.715	155.502	66.022	67.322
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.375	1.668	-	1.668	43.881	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.625	0.769	-	0.769	20.401	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>19.144</b>	<b>58.499</b>	<b>29.791</b>	-	<b>29.791</b>	<b>143.997</b>	<b>155.502</b>	<b>66.022</b>	<b>67.322</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force							<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications					<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0303004F, 0303112F			
<b>Line Item MDAP/MAIS Code:</b> N78									

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 74.322	- / 19.144	- / 58.499	- / 29.791	- / 0.000	- / 29.791
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 74.322</b>	<b>- / 19.144</b>	<b>- / 58.499</b>	<b>- / 29.791</b>	<b>- / -</b>	<b>- / 29.791</b>

  

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / BITI Mod/Recaps (Capability Improvement)		A		- / 143.997	- / 155.502	- / 66.022	- / 67.322	- / -	- / 614.599
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 143.997</b>	<b>- / 155.502</b>	<b>- / 66.022</b>	<b>- / 67.322</b>	<b>- / -</b>	<b>- / 614.599</b>

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

**Justification:**  
 BITI: FY23 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: FY23 continues replacement of BITI on Air Force fielded systems.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired	<b>Modification Number / Title:</b> 1 / BITI Mod/Recaps

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	74.322	19.144	58.499	29.791	0.000	29.791	143.997	155.502	66.022	67.322	-	614.599
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	74.322	19.144	58.499	29.791	0.000	29.791	143.997	155.502	66.022	67.322	-	614.599
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>74.322</b>	<b>19.144</b>	<b>58.499</b>	<b>29.791</b>	<b>0.000</b>	<b>29.791</b>	<b>143.997</b>	<b>155.502</b>	<b>66.022</b>	<b>67.322</b>	-	<b>614.599</b>

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

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

**Description:**

BITI Recapitalization: Beginning in FY19, continues to replace BITI fielded systems 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	19.144	56.499	27.354	-	27.354	79.715	155.502	66.022	67.322
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	1.375	1.668	-	1.668	43.881	-	-	-
AFR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	0.625	0.769	-	0.769	20.401	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>19.144</b>	<b>58.499</b>	<b>29.791</b>	<b>0.000</b>	<b>29.791</b>	<b>143.997</b>	<b>155.502</b>	<b>66.022</b>	<b>67.322</b>

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date: April 2021</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5					<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired					<b>Modification Number / Title:</b> 1 / BITI Mod/Recaps			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> BITI			<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0303004F, 0303112F						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> BITI Recapitalization													
B Kits													
Recurring													
BITI Recapitalization:EQUIPMENT Group B (Active)	21 / 22.870	5 / 1.687	1 / 0.250	4 / 1.290	- / -	4 / 1.290	8 / 50.369	9 / 114.202	3 / 16.091	7 / 20.589	- / -	58 / 227.348	
BITI Recapitalization:EQUIPMENT Group B (Guard)	42 / 16.863	- / -	4 / 1.225	8 / 1.418	- / -	8 / 1.418	10 / 43.681	- / -	- / -	- / -	- / -	64 / 63.187	
BITI Recapitalization:EQUIPMENT Group B (Reserve)	0 / 0.000	- / -	2 / 0.525	3 / 0.754	- / -	3 / 0.754	5 / 20.101	- / -	- / -	- / -	- / -	10 / 21.380	
<i>Subtotal: Recurring</i>	- / 39.733	- / 1.687	- / 2.000	- / 3.462	- / -	- / 3.462	- / 114.151	- / 114.202	- / 16.091	- / 20.589	- / -	- / 311.915	
<i>Subtotal: BITI Recapitalization</i>	- / 39.733	- / 1.687	- / 2.000	- / 3.462	- / -	- / 3.462	- / 114.151	- / 114.202	- / 16.091	- / 20.589	- / -	- / 311.915	
<i>Subtotal: Procurement, All Modification Items</i>	- / 39.733	- / 1.687	- / 2.000	- / 3.462	- / -	- / 3.462	- / 114.151	- / 114.202	- / 16.091	- / 20.589	- / -	- / 311.915	
<b>Support (All Modification Items)</b>													
GROUP B: TOTAL NONRECURRING	- / 5.132	- / 10.776	- / 45.444	- / 14.438	- / -	- / 14.438	- / 16.563	- / 27.342	- / 35.912	- / 32.504	- / -	- / 188.111	
PMA - Other Gov't Costs	- / 1.469	- / 0.551	- / 1.534	- / 1.909	- / -	- / 1.909	- / 3.121	- / 3.402	- / 3.470	- / 3.574	- / -	- / 19.030	
A&AS	- / 5.747	- / 3.863	- / 3.795	- / 3.502	- / -	- / 3.502	- / 4.321	- / 4.447	- / 4.577	- / 4.714	- / -	- / 34.966	
PMA - Contractor Services	- / 14.680	- / 1.844	- / 5.226	- / 5.215	- / -	- / 5.215	- / 5.326	- / 5.484	- / 5.647	- / 5.816	- / -	- / 49.238	
<i>Subtotal: Support</i>	- / 27.028	- / 17.034	- / 55.999	- / 25.064	- / -	- / 25.064	- / 29.331	- / 40.675	- / 49.606	- / 46.608	- / -	- / 291.345	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> BITI Recapitalization	63 / 7.561	5 / 0.423	7 / 0.500	15 / 1.265	- / -	15 / 1.265	23 / 0.515	9 / 0.625	3 / 0.325	7 / 0.125	- / -	132 / 11.339	
<i>Subtotal: Installation</i>	63 / 7.561	5 / 0.423	7 / 0.500	15 / 1.265	- / -	15 / 1.265	23 / 0.515	9 / 0.625	3 / 0.325	7 / 0.125	- / -	132 / 11.339	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>74.322</b>	<b>19.144</b>	<b>58.499</b>	<b>29.791</b>	<b>0.000</b>	<b>29.791</b>	<b>143.997</b>	<b>155.502</b>	<b>66.022</b>	<b>67.322</b>	<b>-</b>	<b>614.599</b>	

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**Exhibit P-3a, Individual Modification: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired	<b>Modification Number / Title:</b> 1 / BITI Mod/Recaps
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

**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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jul 2021	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates	Jul 2021	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026

**Installation Information**

**Method of Implementation:** Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	63 / 7.561	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 7.561
FY 2021	- / -	5 / 0.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.423
FY 2022	- / -	- / -	7 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.500
FY 2023	- / -	- / -	- / -	15 / 1.265	- / -	15 / 1.265	- / -	- / -	- / -	- / -	- / -	15 / 1.265
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	23 / 0.515	- / -	- / -	- / -	- / -	23 / 0.515
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.625	- / -	- / -	- / -	9 / 0.625
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.325	- / -	- / -	3 / 0.325
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.125	- / -	7 / 0.125
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	63 / 7.561	5 / 0.423	7 / 0.500	15 / 1.265	- / -	15 / 1.265	23 / 0.515	9 / 0.625	3 / 0.325	7 / 0.125	- / -	132 / 11.339

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	63	-	-	-	5	4	3	-	-	-	15	-	-	-	23	-	-	-	9	-	-	3	-	-	-	7	-	-	0	132	
Out	34	10	5	7	7	-	-	5	4	-	3	-	-	-	15	-	-	-	23	-	-	9	-	-	-	3	-	7	0	132	



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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, 0303089F, 0303112F

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	198.696	84.515	65.354	83.320	-	83.320	110.060	53.075	54.792	55.996	-	705.808
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	198.696	84.515	65.354	83.320	-	83.320	110.060	53.075	54.792	55.996	-	705.808
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>198.696</b>	<b>84.515</b>	<b>65.354</b>	<b>83.320</b>	<b>-</b>	<b>83.320</b>	<b>110.060</b>	<b>53.075</b>	<b>54.792</b>	<b>55.996</b>	<b>-</b>	<b>705.808</b>

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

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

**Description:**

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 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835080 / AFNET
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208088F, 0303089F, 0303112F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<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>FY23 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), Active Directory Exchange (ADX) and Host Based Security System (HBSS), Comply to Connect, 2 Factor Authentication (2FA), and Zero Trust. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, Enclave NIPR Firewall and ASIM Sustainment (ENFASS) (previously under Air Force Cyberspace Defense (ACD)), base boundaries, and SDP Router tech refresh.</p> <p>PE 0303228F, JOINT INFORMATION ENVIRONMENT (JIE)</p> <p>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. JIE funding may be used to maintain the current architecture of the AFNET while JIE implementation is ongoing.</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 2023 Air Force **Date:** April 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, 0303089F, 0303112F

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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 / AFINC/CSCS WS 0303089 (Reliability & Maintainability)		A		- / 151.769	- / 84.515	- / 65.354	- / 83.320	- / 0.000	- / 83.320
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 198.696</b>	<b>- / 84.515</b>	<b>- / 65.354</b>	<b>- / 83.320</b>	<b>- / -</b>	<b>- / 83.320</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AFINC/CSCS WS 0303089 (Reliability & Maintainability)		A		- / 96.704	- / 45.567	- / 47.041	- / 48.074	- / -	- / 622.344
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 110.060</b>	<b>- / 53.075</b>	<b>- / 54.792</b>	<b>- / 55.996</b>	<b>- / -</b>	<b>- / 705.808</b>

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

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

**Justification:**

These programs support Cyberspace Activities.

FY23 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), Active Directory Exchange (ADX) and Host Based Security System (HBSS), Comply to Connect, 2 Factor Authentication (2FA), and Zero Trust and base boundaries. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, Enclave NIPR Firewall and ASIM Sustainment (ENFASS) (previously under Air Force Cyberspace Defense (ACD)), base boundaries, and SDP Router tech refresh.

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)

This effort was previously funded under PE 0303089F and is now under PE 0303228F.

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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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835080 / AFNET	<b>Modification Number / Title:</b> 1 / AFINC/CSCS WS 0303089

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	151.769	84.515	65.354	83.320	0.000	83.320	96.704	45.567	47.041	48.074	-	622.344
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	151.769	84.515	65.354	83.320	0.000	83.320	96.704	45.567	47.041	48.074	-	622.344
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>151.769</b>	<b>84.515</b>	<b>65.354</b>	<b>83.320</b>	<b>0.000</b>	<b>83.320</b>	<b>96.704</b>	<b>45.567</b>	<b>47.041</b>	<b>48.074</b>	-	<b>622.344</b>

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

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

**Description:**

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.

FY23 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), Active Directory Exchange (ADX) and Host Based Security System (HBSS), Comply to Connect, 2 Factor Authentication (2FA), and Zero Trust. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, Enclave NIPR Firewall and ASIM Sustainment (ENFASS) (previously under Air Force Cyberspace Defense (ACD)), base boundaries, and SDP Router tech refresh.

Milestone/Development Status

Sustainment

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>											<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5				<b>P-1 Line Item Number / Title:</b> 835080 / AFNET				<b>Modification Number / Title:</b> 1 / AFINC/CSCS WS 0303089				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> AFINC-CSCS-WS			<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b> 0303112F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> AFINC/CSCS WS MODs												
B Kits												
Recurring												
AFINC/CSCS WS MODs:EQUIPMENT Group B (Active)	2 / 124.165	1 / 72.779	1 / 53.255	1 / 62.117	- / -	1 / 62.117	1 / 76.464	1 / 32.156	1 / 32.984	1 / 33.646	- / -	9 / 487.566
<i>Subtotal: Recurring</i>	- / 124.165	- / 72.779	- / 53.255	- / 62.117	- / -	- / 62.117	- / 76.464	- / 32.156	- / 32.984	- / 33.646	- / -	- / 487.566
<i>Subtotal: AFINC/CSCS WS MODs</i>	- / 124.165	- / 72.779	- / 53.255	- / 62.117	- / -	- / 62.117	- / 76.464	- / 32.156	- / 32.984	- / 33.646	- / -	- / 487.566
<i>Subtotal: Procurement, All Modification Items</i>	- / 124.165	- / 72.779	- / 53.255	- / 62.117	- / -	- / 62.117	- / 76.464	- / 32.156	- / 32.984	- / 33.646	- / -	- / 487.566
<b>Support (All Modification Items)</b>												
GROUP B: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / 0.000
PMA - Contractor Services	- / 25.514	- / 11.157	- / 11.543	- / 20.180	- / -	- / 20.180	- / 19.319	- / 12.761	- / 13.382	- / 13.732	- / -	- / 127.588
PMA - Other Gov't Costs	- / 2.090	- / 0.579	- / 0.556	- / 1.023	- / -	- / 1.023	- / 0.921	- / 0.650	- / 0.675	- / 0.696	- / -	- / 17.190
<i>Subtotal: Support</i>	- / 27.604	- / 11.736	- / 12.099	- / 21.203	- / -	- / 21.203	- / 20.240	- / 13.411	- / 14.057	- / 14.428	- / -	- / 134.778
<b>Installation</b>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>151.769</b>	<b>84.515</b>	<b>65.354</b>	<b>83.320</b>	<b>0.000</b>	<b>83.320</b>	<b>96.704</b>	<b>45.567</b>	<b>47.041</b>	<b>48.074</b>	<b>-</b>	<b>622.344</b>

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force						<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5			<b>P-1 Line Item Number / Title:</b> 835080 / AFNET			<b>Modification Number / Title:</b> 1 / AFINC/CSCS WS 0303089	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 1:</b> AFINC/CSCS WS MODs							
<b>Manufacturer Information</b>							
Manufacturer Name: Multiple				Manufacturer Location: Various			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 12			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates	May 2021	May 2022	May 2023	May 2024	May 2025	May 2026	May 2027
Delivery Dates	May 2022	May 2023	May 2024	May 2025	May 2026	May 2027	May 2028
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 9		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** 835110 / Joint Communications Support Element (JCSE)

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207422F **Other Related Program Elements:** 0207442F

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	6.185	4.377	5.199	-	5.199	5.366	5.803	5.966	6.084	-	38.980
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	6.185	4.377	5.199	-	5.199	5.366	5.803	5.966	6.084	-	38.980
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>6.185</b>	<b>4.377</b>	<b>5.199</b>	-	<b>5.199</b>	<b>5.366</b>	<b>5.803</b>	<b>5.966</b>	<b>6.084</b>	-	<b>38.980</b>

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

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

**Description:**

JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE, assigned under Joint Enabling Capabilities Command, US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide command, control, communications, and computers (C4) systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The Joint Communications Support Element (JCSE) mission is to provide, on short notice, those critical communications required to support Joint Task Force support (JTF) and Joint Special Operations Task Force (JSOTF) headquarters. These assets support the warfighter's ability to deploy rapidly and immediately provide the positive command and control required. This support includes contingency and crisis communications for the Joint Chiefs of Staff, Combatant Commands, Services, Defense agencies, non-Defense agencies, and foreign governments. Program goals include meeting emerging real-world operational requirements with the maximum capabilities, smallest footprint, lowest operations and maintenance costs, and seamless integration with the global information grid. Per Defense Planning Guidance (DPG) and Director, Joint Staff Memorandum (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.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): B **Program Elements for Code B Items:** 0207422F **Other Related Program Elements:** 0207442F

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Joint Communications Support Element (JCSE)	P-5a, P-21	B		- / -	- / 6.185	- / 4.377	- / 5.199	- / -	- / 5.199
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 6.185</b>	<b>- / 4.377</b>	<b>- / 5.199</b>	<b>- / -</b>	<b>- / 5.199</b>

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

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

**Justification:**  
 JCSE: FY23 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, Denied, Degraded C2 Environments(D2C2E)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 to support Delayed/Disconnected Intermittent, Low-Bandwidth (DDIL) environments, 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835110 / Joint Communications Support Element (JCSE)	<b>Item Number / Title [DODIC]:</b> Joint Communications Support Element (JCSE)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	6.185	4.377	5.199	-	5.199
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	6.185	4.377	5.199	-	5.199
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>6.185</b>	<b>4.377</b>	<b>5.199</b>	-	<b>5.199</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - Joint Communications Support Element (JCSE) Cost																		
Recurring Cost																		
Hardware <sup>(t)</sup>	-	-	-	6.185	1	6.185	4.377	1	4.377	5.199	1	5.199	-	-	-	5.199	1	5.199
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.185	-	-	4.377	-	-	5.199	-	-	-	-	-	5.199
<i>Subtotal: Hardware - Joint Communications Support Element (JCSE) Cost</i>	-	-	-	-	-	6.185	-	-	4.377	-	-	5.199	-	-	-	-	-	5.199
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	6.185	-	-	4.377	-	-	5.199	-	-	-	-	-	5.199

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5			<b>P-1 Line Item Number / Title:</b> 835110 / Joint Communications Support Element (JCSE)				<b>Item Number / Title [DODIC]:</b> Joint Communications Support Element (JCSE)					

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
Hardware		2021	Nex Tech Solutions / MacDill AFB	PO	AMC	Oct 2021	Apr 2022	1	6.185	N	Sep 2021	Aug 2021
Hardware		2022	Various/TBD / MacDill AFB	PO	AMC	Apr 2022	Sep 2022	1	4.377	N	Mar 2022	Feb 2022
Hardware <sup>(†)</sup>		2023	Various/TBD / MacDill AFB	PO	AMC	Feb 2023	Aug 2023	1	5.199	N	Jan 2023	

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



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5		<b>P-1 Line Item Number / Title:</b> 835110 / Joint Communications Support Element (JCSE)
		<b>Item Number / Title [DODIC]:</b> Joint Communications Support Element (JCSE)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various/TBD - MacDill AFB	1	1	1	1	5	6	11	0	0	0	0

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

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	19.649	18.101	11.896	-	11.896	17.973	19.437	19.983	20.375	-	127.414
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	19.649	18.101	11.896	-	11.896	17.973	19.437	19.983	20.375	-	127.414
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>19.649</b>	<b>18.101</b>	<b>11.896</b>	-	<b>11.896</b>	<b>17.973</b>	<b>19.437</b>	<b>19.983</b>	<b>20.375</b>	-	<b>127.414</b>

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

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

**Description:**

PE 0201122F USCENTCOM COMMUNICATIONS

HQ USCENTCOM's mission is to work with its national and international partners in promoting development and cooperation among nations, responding to crises, and deterring or defeating state and transnational aggression in order to establish regional security and stability across its entire Area of Responsibility (AOR). Since USCENTCOM's AOR, covering the Middle East, includes the challenges of regional stability and violent extremists, this Combatant Command's mission is critical in regards to the Overseas Contingency Operations (OCO). To meet its mission responsibilities across this geographical expanse, HQ USCENTCOM must rely heavily on Command, Control, Communications, and Computer (C4) systems capable of achieving full spectrum information superiority.

Funding for this effort is contained in PE 0201122F USCENTCOM Communications.

USCENTCOM COMMAND AND CONTROL SYSTEMS: Effort will provide end of life replacement for, but not limited to: Command and Control (C2) systems (thin client, server, etc), Joint Information Environment (JIE), classified and unclassified voice, data and video dissemination, storage area network (SAN) infrastructure, establishment of 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, to provide proper C4 capabilities the USCENTCOM communication architecture must transform to support operations through the Command's Future Mission Environment (FME). FME is about seamless access to data and applications across multiple devices and networks. FME is crucial to USCENTCOM's future C2 ability and to support the speed of warfare and its ever-increasing speed of the decision and targeting cycles as envisioned by the Combined Joint All Domain Command and Control (JADC2) concepts. The FME also seeks to utilize emerging technologies associated with transition of capabilities to the cloud and in conjunction with DoD Joint Information Enterprise (JE). USCENTCOM will use these funds to immediately 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. Additionally, these funds will be used to seek solutions to 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 will provide 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)

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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.

Funding for this effort is contained in PE 0201131F SVC SPT USCENTCOM COMMS

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	USCENTCOM Communications	P-5a, P-21	A		- / -	- / 4.592	- / 4.231	- / 4.070	- / -	- / 4.070
P-5	Service Support to USCENTCOM - Communications	P-5a, P-21	A		- / -	- / 15.057	- / 13.870	- / 7.826	- / -	- / 7.826
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 19.649	- / 18.101	- / 11.896	- / -	- / 11.896

\*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.

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: FY23 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 FY23 funds will provide:

BASE COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, AND INTELLIGENCE (C4I) INFRASTRUCTURE. This FY23 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.

These efforts will 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM	<b>Item Number / Title [DODIC]:</b> USCENTCOM Communications

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	4.592	4.231	4.070	-	4.070
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	4.592	4.231	4.070	-	4.070
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>4.592</b>	<b>4.231</b>	<b>4.070</b>	-	<b>4.070</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - USCENTCOM Communications Cost																		
Recurring Cost																		
USCENTCOM COMMAND AND CONTROL SYSTEM <sup>(†)</sup>	-	-	-	4.592	1	4.592	4.231	1	4.231	4.070	1	4.070	-	-	-	4.070	1	4.070
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.592	-	-	4.231	-	-	4.070	-	-	-	-	-	4.070
<i>Subtotal: Hardware - USCENTCOM Communications Cost</i>	-	-	-	-	-	4.592	-	-	4.231	-	-	4.070	-	-	-	-	-	4.070
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	4.592	-	-	4.231	-	-	4.070	-	-	-	-	-	4.070

**Remarks:**

USCENTCOM: Funding will be used for continuous support of episodic missions with our coalition partners via interoperable information systems and technology as well as implementing USCENTCOM migration to the DoD CIO cloud environment. To adequately address all cloud computing infrastructure, applications, management, data storage, and governance for all USCENTCOM, subordinate Services, and coalition partners we currently support, these funds are critical.

Funds are needed to transition all current USCENTCOM networking computer-based operations, including secure information to the Cloud Computing environment. USCENTCOM currently supports two headquarters, a liaison office in the Pentagon, Security Cooperation Organizations sites in the USCENTCOM AOR, and a data back-up disaster recover location to maintain operations and mission support by providing access to necessary data in real-time, enable decisions making and command and control capabilities. HQ USCENTCOM estimates a minimum of 10,250 user accounts as well as computers and peripherals for SIPRNet, NIPRNet, and multiple coalition networks. Mission Partner Environment-Information Systems will consolidate numerous coalition/partner networks to provide a more responsive and flexible mission command capability that will support cost avoidance in creating new coalition/partner networks for future operations and exercises, but the initial MPE-IS network requires funding to build and maintain.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM	<b>Item Number / Title [DODIC]:</b> USCENTCOM Communications
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM	<b>Item Number / Title [DODIC]:</b> USCENTCOM Communications
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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
USCENTCOM COMMAND AND CONTROL SYSTEM <sup>(†)</sup>		2021	6 Cons / MacDill AFB	PO	USCENTCOM	Jan 2021	Jul 2021	1	4.592	Y		Nov 2020
USCENTCOM COMMAND AND CONTROL SYSTEM <sup>(†)</sup>		2022	6 Cons / MacDill AFB	PO	USCENTCOM	Jan 2022	Jul 2022	1	4.231	Y		Nov 2021
USCENTCOM COMMAND AND CONTROL SYSTEM <sup>(†)</sup>		2023	6 Cons / MacDill AFB	PO	USCENTCOM	Jan 2023	Jul 2023	1	4.070	Y		Nov 2022

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM	<b>Item Number / Title [DODIC]:</b> USCENTCOM Communications
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
USCENTCOM COMMAND AND CONTROL SYSTEM																															
	1	2021	AF	1	0	1				A	-	-	-	-	-	-	-	1												0	
	1	2022	AF	1	0	1														A	-	-	-	-	-	-	-	1		0	
	2	2023	AF	1	0	1																								1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM	<b>Item Number / Title [DODIC]:</b> USCENTCOM Communications
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
USCENTCOM COMMAND AND CONTROL SYSTEM																																	
	1	2021	AF	1	1	0																							0				
	1	2022	AF	1	1	0																							0				
	2	2023	AF	1	0	1				A	-	-	-	-	-	-	1												0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM	<b>Item Number / Title [DODIC]:</b> USCENTCOM Communications
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	6 Cons - MacDill AFB				0	0	0	0	0	0	0	0	0
2	6 Cons - MacDill AFB			100	0	0	0	0	0	0	4	6	10

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

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM	<b>Item Number / Title [DODIC]:</b> Service Support to USCENTCOM - Communications

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	15.057	13.870	7.826	-	7.826
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	15.057	13.870	7.826	-	7.826
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>15.057</b>	<b>13.870</b>	<b>7.826</b>	-	<b>7.826</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Service Support to USCENTCOM - Communications Cost																		
44000 <sup>(†)</sup>	-	-	-	10.826	1	10.826	10.750	1	10.750	6.200	1	6.200	-	-	-	6.200	1	6.200
<i>Subtotal: Support - Service Support to USCENTCOM - Communications Cost</i>	-	-	-	-	-	<b>10.826</b>	-	-	<b>10.750</b>	-	-	<b>6.200</b>	-	-	-	-	-	<b>6.200</b>
Support - USCENTCOM - Communications Cost																		
44000	-	-	-	-	-	4.231	-	-	3.120	-	-	1.626	-	-	-	-	-	1.626
<i>Subtotal: Support - USCENTCOM - Communications Cost</i>	-	-	-	-	-	<b>4.231</b>	-	-	<b>3.120</b>	-	-	<b>1.626</b>	-	-	-	-	-	<b>1.626</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>15.057</b>	-	-	<b>13.870</b>	-	-	<b>7.826</b>	-	-	-	-	-	<b>7.826</b>

**Remarks:**

Air Forces United States Central Command (AFCENT) is the ACC component designated to support USCENTCOM operations in deployed theaters for the AF. Funds procure 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. FY 23 funding will be used to complete procurement of MODE 5 Kits for USAF RADARS in theater, equipment and install for new Air Traffic Control Tower in Jordan, and increased Very Small Aperture Terminal (VSAT) SATCOM support for AFCENT Agile Combat Employment initiatives.

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5			<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM				<b>Item Number / Title [DODIC]:</b> Service Support to USCENTCOM - Communications				

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
44000		2021	NIWC Atlantic / Southwest Asia AOR	Various	AA-CDM	Jan 2021	Jan 2021	1	10.826	Y		
44000		2022	NIWC Atlantic / Southwest Asia AOR	Various	AA-CDM	Jan 2022	Jan 2022	1	10.750	Y		
44000 <sup>(†)</sup>		2023	NIWC Atlantic / Southwest Asia AOR	Various	AA-CDM	Jan 2023	Jan 2023	1	6.200	Y		

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5										<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM										<b>Item Number / Title [DODIC]:</b> Service Support to USCENTCOM - Communications									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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

44000																														1	
1	2023	AF		1	0	1																									1

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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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5										<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM										<b>Item Number / Title [DODIC]:</b> Service Support to USCENTCOM - Communications									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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

44000																																	0
1	2023	AF		1	0	1	A1																										

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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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5		<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM
<b>Item Number / Title [DODIC]:</b> Service Support to USCENTCOM - Communications		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	NIWC Atlantic - Southwest Asia AOR	1	1	3	0	0	0	0	1	4	0	4

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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	11.327	4.337	4.226	4.619	-	4.619	4.422	4.783	4.914	5.010	-	43.638
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	11.327	4.337	4.226	4.619	-	4.619	4.422	4.783	4.914	5.010	-	43.638
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>11.327</b>	<b>4.337</b>	<b>4.226</b>	<b>4.619</b>	-	<b>4.619</b>	<b>4.422</b>	<b>4.783</b>	<b>4.914</b>	<b>5.010</b>	-	<b>43.638</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	4.337	4.226	4.619	-	4.619	4.422	4.783	4.914	5.010	-	32.311
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding due to a database error. Therefore, an explanation of the change between the two budget positions for FY 2023 cannot be made in a relevant manner. Funding for FY 2023 through FY 2027 has always been programmed through the FYDP; this is NOT a New Start.

FY 2020 was the last year procurement was used for fit-out of the new USSTRATCOM Command and Control Facility (C2F). With the completion of the USSTRATCOM C2F fit-out, remaining procurement funding across the FYDP supports lifecycle management for Nuclear Command Control (NC2) Systems at USSTRATCOM Headquarters, remote locations, and classified programs.

Global Distributed Command and Control (GDC2) is the classified portion 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 is in cooperation with DISA and OSD Policy.

This is NOT a new start.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	USSTRATCOM IT Enterprise	P-5a, P-21	A		- / 9.000	- / 0.000	- / 0.000	1 / 0.337	- / -	1 / 0.337
P-5	Command, Control, Communication, and Computers (C4) - STRATCOM	P-5a, P-21	A		- / 2.327	1 / 4.337	1 / 4.226	1 / 4.282	- / -	1 / 4.282
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 11.327</b>	<b>- / 4.337</b>	<b>- / 4.226</b>	<b>- / 4.619</b>	<b>- / -</b>	<b>- / 4.619</b>

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

**Justification:**  
 Prior Year (FY 2020) was the last year USSTRATCOM executed procurement funding in support of the fit-out of USSTRATCOM IT ENTERPRISE exhibit for the new USSTRATCOM Command and Control Facility (C2F).  
  
 The FY 2023 procurement funding of 337 thousand in the USSTRATCOM IT ENTERPRISE exhibit is a one year requirement supporting the USSTRATCOM Joint Intelligence Operations Center (JIOC). Detailed information is classified; additional information will be provided on a need to know basis.  
  
 The COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS (C4) - STRATCOM exhibit supports lifecycle management of USSTRATCOM Headquarters, remote locations, and Global Distributed Command and Control (GDC2). Detailed information is classified; additional information will be provided on a need to know basis.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM	<b>Item Number / Title [DODIC]:</b> USSTRATCOM IT Enterprise

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	1	-	1
Gross/Weapon System Cost (\$ in Millions)	9.000	0.000	0.000	0.337	-	0.337
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9.000	0.000	0.000	0.337	-	0.337
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>9.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.337</b>	<b>-</b>	<b>0.337</b>

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

Initial Spares (\$ in Millions)	-	-	-	0.337	0.000	0.337
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	0.337	-	0.337

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - USSTRATCOM IT Enterprise Cost																		
Recurring Cost																		
Fit-Out USSTRATCOM New C2F	9.000	1	9.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USSTRATCOM JIOC <sup>(t)</sup>	-	-	-	-	-	0.000	-	-	0.000	0.337	1	0.337	-	-	-	0.337	1	0.337
<i>Subtotal: Recurring Cost</i>	-	-	9.000	-	-	0.000	-	-	0.000	-	-	0.337	-	-	-	-	-	0.337
<i>Subtotal: Hardware - USSTRATCOM IT Enterprise Cost</i>	-	-	9.000	-	-	0.000	-	-	0.000	-	-	0.337	-	-	-	-	-	0.337
<b>Gross/Weapon System Cost</b>	-	-	<b>9.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	<b>0.337</b>	<b>1</b>	<b>0.337</b>	-	-	-	<b>0.337</b>	<b>1</b>	<b>0.337</b>

**Remarks:**

Prior Year (FY 2020) was the last year USSTRATCOM executed procurement funding in support of the fit-out of the USSTRATCOM IT ENTERPRISE exhibit for the new USSTRATCOM Command and Control Facility (C2F).

The FY 2023 procurement funding of 337 thousand in the USSTRATCOM IT ENTERPRISE exhibit is a one year requirement supporting the USSTRATCOM Joint Intelligence Operations Center (JIOC). Detailed information is classified; additional information will be provided on a need to know basis.

<sup>(t)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM	<b>Item Number / Title [DODIC]:</b> USSTRATCOM IT Enterprise
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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
USSTRATCOM JIOC <sup>(†)</sup>		2023	Various / Various	TBD	ACC	Jan 2023	Jan 2023	1	0.337	Y		

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

**Remarks:**

The FY 2023 procurement funding of 337 thousand in the USSTRATCOM IT ENTERPRISE exhibit is a one year requirement supporting the USSTRATCOM Joint Intelligence Operations Center (JIOC). Detailed information is classified; additional information will be provided on a need to know basis.

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM	<b>Item Number / Title [DODIC]:</b> USSTRATCOM IT Enterprise
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
USSTRATCOM JIOC																												0							
	1	2023	AF	1	0	1	A1																												0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5		<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM
		<b>Item Number / Title [DODIC]:</b> USSTRATCOM IT Enterprise

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	1	4	0	4	0	0	0	0

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



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM	<b>Item Number / Title [DODIC]:</b> Command, Control, Communication, and Computers (C4) - STRATCOM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	1	1	1	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2.327	4.337	4.226	4.282	-	4.282
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2.327	4.337	4.226	4.282	-	4.282
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2.327</b>	<b>4.337</b>	<b>4.226</b>	<b>4.282</b>	<b>-</b>	<b>4.282</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	4.337	4.226	4.282	0.000	4.282
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	4.337	4.226	4.282	-	4.282

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - Command, Control, Communication, and Computers (C4) - STRATCOM Cost																		
Recurring Cost																		
NC2 Lifecycle <sup>(†)</sup>	1.831	1	1.831	1.861	1	1.861	1.895	1	1.895	1.825	1	1.825	-	-	-	1.825	1	1.825
GDC2 Classified <sup>(†)</sup>	0.496	1	0.496	2.476	1	2.476	2.331	1	2.331	2.457	1	2.457	-	-	-	2.457	1	2.457
<i>Subtotal: Recurring Cost</i>	-	-	2.327	-	-	4.337	-	-	4.226	-	-	4.282	-	-	-	-	-	4.282
<i>Subtotal: Hardware - Command, Control, Communication, and Computers (C4) - STRATCOM Cost</i>	-	-	2.327	-	-	4.337	-	-	4.226	-	-	4.282	-	-	-	-	-	4.282
<b>Gross/Weapon System Cost</b>	-	-	2.327	4.337	1	4.337	4.226	1	4.226	4.282	1	4.282	-	-	-	4.282	1	4.282

**Remarks:**

The COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS (C4) - STRATCOM exhibit supports lifecycle management of Nuclear Command Control (NC2) Systems and Global Distributed Command and Control (GDC2). Detailed information is classified; additional information will be provided on a need to know basis.

This is NOT a new start.

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5			<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM				<b>Item Number / Title [DODIC]:</b> Command, Control, Communication, and Computers (C4) - STRATCOM				

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
NC2 Lifecycle <sup>(†)</sup>		2021	Four Tribes Enterprises, LLC / Gaithersburg, MD	Reqn	ACC	Mar 2021	Mar 2022	1	1.861	Y		
NC2 Lifecycle <sup>(†)</sup>		2022	Various / Various	Reqn	ACC	Mar 2022	Mar 2023	1	1.895	Y		
NC2 Lifecycle <sup>(†)</sup>		2023	Various / Various	Reqn	ACC	Mar 2023	May 2024	1	1.825	Y		
GDC2 Classified <sup>(†)</sup>		2021	Four Tribes Enterprise, LLC / Gaithersburg, MD	Reqn	ACC	Mar 2021	Mar 2022	1	2.476	Y		
GDC2 Classified <sup>(†)</sup>		2022	Various / Various	Reqn	ACC	Jun 2022	Jun 2023	1	2.331	Y		
GDC2 Classified <sup>(†)</sup>		2023	Various / Various	Reqn	ACC	Jun 2023	Jun 2024	1	2.457	Y		

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM
<b>Item Number / Title [DODIC]:</b> Command, Control, Communication, and Computers (C4) - STRATCOM	

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021												Fiscal Year 2022												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
<b>NC2 Lifecycle</b>																															
Prior Years Deliveries: 1																															
	1	2021	AF	1	0	1																							1	0	
	2	2022	AF	1	0	1																								1	
	2	2023	AF	1	0	1																								1	
<b>GDC2 Classified</b>																															
Prior Years Deliveries: 1																															
	3	2021	AF	1	0	1																							1	0	
	4	2022	AF	1	0	1																								1	
	4	2023	AF	1	0	1																								1	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5										<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM										<b>Item Number / Title [DODIC]:</b> Command, Control, Communication, and Computers (C4) - STRATCOM									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
NC2 Lifecycle																															
Prior Years Deliveries: 1																															
	1	2021	AF	1	1	0																							0		
	2	2022	AF	1	0	1	-	-	-	-	-	-	1																0		
	2	2023	AF	1	0	1								A	-	-	-	-	-	-	-	-	-	-	-	-	1	0			
GDC2 Classified																															
Prior Years Deliveries: 1																															
	3	2021	AF	1	1	0																						0			
	4	2022	AF	1	0	1	-	-	-	-	-	-	1																0		
	4	2023	AF	1	0	1								A	-	-	-	-	-	-	-	-	-	-	-	1	0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5		<b>P-1 Line Item Number / Title:</b> 835160 / USSTRATCOM
<b>Item Number / Title [DODIC]:</b> Command, Control, Communication, and Computers (C4) - STRATCOM		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Four Tribes Enterprises, LLC - Gaithersburg, MD				0	0	0	0	0	0	0	0	0
2	Various - Various	1	1	1	1	6	14	20	0	0	0	0	0
3	Four Tribes Enterprise, LLC - Gaithersburg, MD				0	0	0	0	0	0	0	0	0
4	Various - Various	1	1	1	1	9	12	21	0	0	0	0	0

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

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** 0207444F

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	123.613	157.817	120.050	-	120.050	116.477	106.530	117.853	117.326	-	859.666
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	123.613	157.817	120.050	-	120.050	116.477	106.530	117.853	117.326	-	859.666
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>123.613</b>	<b>157.817</b>	<b>120.050</b>	-	<b>120.050</b>	<b>116.477</b>	<b>106.530</b>	<b>117.853</b>	<b>117.326</b>	-	<b>859.666</b>

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

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

**Description:**

837100 / Tactical C-E Equipment includes-TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT (TACS), THEATER- DEPLOYABLE COMMUNICATIONS (TDC), ADVANCED COMMUNICATION SYSTEM (ACS) TACTICAL AIR CONTROL PARTY MODERNIZATION, AND SPECIAL TACTICS/COMBAT CONTROL.

PE 0207418F TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT (TACS): FY23 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. FY23 funding will furthermore be used to purchase JTC-TRS Desktops:

- 4 for ACC to replace the 4 re-purposed 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 27422F 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: Flexible Communications Package (FCP) and Agile Communications Package (ACP) 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 FCP consists of SATCOM, Integrated Communications Package (ICAP) and Network Control Center- Deployed (NCC-D) components. The ACP will replace the Communication Fly away kit and the SCP. It will consist of ICAP equipment and additional funding will be used to accelerate the procurement and fielding of this to meet the Agile Combat Employment mission.

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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207444F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>THEATER-DEPLOYABLE COMMUNICATIONS (TDC) procurements consist of SATCOM, ICAP 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>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>PE 0207423F Advanced Communications Systems consist of Mobile User Objective System (MUOS) and TACTICAL RADIO SYSTEMS (TRS). These 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> <p>PE 0207444F Tactical Air Control Party-Mod TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M) ACQUISITION CATEGORIES: FY23 funding is planned to execute Air Support Operations Center Modernization (ASOC-Mod), year two of Initial Contractor Support (ICS) for Tactical Transportable Gateways (TTG), Maneuver Gateway (MG) Phase II, Mobile Communication Systems (MCS) Kits for MCS Block 3 (Armored Multi-Purpose Vehicle) and MCS Block 4 (Joint Light Tactical Vehicle), Dismounted procurements supporting Special Warfare Acquisition Growth (SWAGR) and Tactical Assault Kit (TAKBox) and mounted equipment radios/peripherals/etc., as well as Naval Surface Warfare Center (NSWC) Crane support for all TACP-M programs including Dismounted.</p> <p>All TACP-M programs execute effective interoperable communications with existing C4I equipment and must be interoperable with planned C4I equipment tying into the Theater Deployable Communications (TDC) Program Management Directive (PMD), USAF and Army future Joint All Domain Command and Control (JADC2) capabilities and joint Digitally-Aided CAS (DACAS) standards.</p> <p>The ASOC-Mod project to include MG is comprised of several Commercial-of-the Shelf (COTS)/Government-of-the Shelf (GOTS) hardware and software, including expanding Link-16 and SADL capabilities for gateway operations throughout lower echelons with products currently available to support further integration efforts to meet requirements and gain valuable feedback from other TACP-M programs, innovation sites and the User Engagement Site (UES).</p> <p>MCS: ICS and contractor travel for MCS Block 2, 6 kits for Initial Operational Capability (IOC) for MCS Block 3 (AMPV), and 37 kits for MCS Block 4 (JLTV).</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207444F
<b>Line Item MDAP/MAIS Code:</b> N/A		

Items requested in FY23 as identified in this 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 for operational TACP units.

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.

PE 0408011F Special Tactics / Combat Control: SPECIAL WARFARE ACQUISITION GROWTH AND REFRESH (SWAGR): 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) Special Warfare Program. This program will procure and enhance technologies for Special Warfare ST operators that are interoperable 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 Special Warfare operators. 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.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	94.321	118.301	99.648	-	99.648	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	23.828	32.802	16.362	-	16.362	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.464	6.714	4.040	-	4.040	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>123.613</b>	<b>157.817</b>	<b>120.050</b>	-	<b>120.050</b>	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** 0207444F

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	P-5a, P-21	A		- / -	- / 1.539	- / 3.961	- / 2.722	- / -	- / 2.722
P-5	Deployable C3 Systems	P-5a, P-21	A		- / -	- / 36.557	- / 57.306	- / 34.829	- / -	- / 34.829
P-5	Advanced Communications Systems	P-5a, P-21	A		- / -	- / 6.403	- / 6.214	- / 10.834	- / -	- / 10.834
P-5	Tactical Air Control Party-Mod	P-5a, P-21	A		- / -	- / 50.093	- / 52.200	- / 53.632	- / -	- / 53.632
P-5	Special Tactics / Combat Control	P-5a, P-21	A		- / -	- / 29.021	- / 38.136	- / 18.033	- / -	- / 18.033
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 123.613	- / 157.817	- / 120.050	- / -	- / 120.050

\*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:**

PE 0207418F TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT (TACS)

TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT (TACS): FY23 funding provides for fielding of Digitally Aided CAS kits, as well as portable devices and desktop(s). Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

PE 0207422F TDC

FY23 ICAP-36, NCCD-98, SATCOM-1

AD: 3, 80, 1  
 ANG: 27, 18, 0  
 ARC: 6, 0, 0

PE 0207423F Advanced Communications Systems

FY23 - 850 MUOS waveforms, 20 AN/PRC-117G radios, 16 MUOS training events and MUOS Help Desk Support Services.

PE 0207444F Tactical Air Control Party-Mod

TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M) ACQUISITION CATEGORIES: FY23 funding is planned to execute year two of Initial Contractor Support (ICS) for Tactical Transportable Gateways (TTG), Mobile Communication Systems (MCS): 43 Kits (6 MCS Block 3 (AMPV) IOC fielding (Includes AMPV EDI vehicles) and 37 MCS Block 4 (JLTVs)), dismounted (Special Warfare Acquisition Growth (SWAGR)) and mounted equipment radios/peripherals/etc., as well as Navy Crane contract support for MCS, ASOC Modernization and TTG/Interim Tactical Gateway (ITG) integration and fielding, system modeling, program management and cyber security TACP logistics support agency.

The ASOC modernization project is comprised of several COTs/GOTs hardware and software, including expanding Link-16 and SADL capabilities for gateway operations throughout lower echelons, products currently available to support further integration efforts to meet requirements and gain valuable feedback from other TACP-M programs, innovation sites and the User Engagement Site (UES).

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207444F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>TACP-M programs execute effective interoperable communications with existing C4I equipment and must be interoperable with planned C4I equipment tying into the Theater Deployable Communications (TDC) Program Management Directive (PMD), USAF and Army future Joint All Domain Command and Control (JADC2) capabilities and joint Digitally-Aided CAS (DACAS) standards.</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>PE 0408011F Special Tactics / Combat Control</p> <p>Items requested in FY23 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment						<b>Item Number / Title [DODIC]:</b> AFSPECWAR - TACP						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	
Procurement Quantity (Units in Each)				-		-			-			-			-		-	
Gross/Weapon System Cost (\$ in Millions)				-		1.539			3.961			2.722			-		2.722	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				-		1.539			3.961			2.722			-		2.722	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				-		<b>1.539</b>			<b>3.961</b>			<b>2.722</b>			-		<b>2.722</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Millions)				-		-			-			-			-		-	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Hardware - TACP Fixed Simulator - JTC TRS Cost																		
Recurring Cost																		
TACP Fixed Simulators - JTC TRS	-	-	-	-	-	0.000	1.563	1	1.563	-	-	2.722	-	-	-	-	-	2.722
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	1.563	-	-	2.722	-	-	-	-	-	2.722
<i>Subtotal: Hardware - TACP Fixed Simulator - JTC TRS Cost</i>	-	-	-	-	-	0.000	-	-	1.563	-	-	2.722	-	-	-	-	-	2.722
Software - Tactical Airborne Control Systems Cost																		
Recurring Cost																		
Digitally Aided CAS <sup>(†)</sup>	-	-	-	0.513	3	1.539	1.000	1	1.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.539	-	-	1.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - Tactical Airborne Control Systems Cost</i>	-	-	-	-	-	1.539	-	-	1.000	-	-	-	-	-	-	-	-	-
Support - TACP SIM Support Cost																		
Management Services - Contractor Services and other Government Costs	-	-	-	-	-	-	0.398	1	0.398	-	-	-	-	-	-	-	-	-
Contractor PM & Cyber Support	-	-	-	-	-	-	1.000	1	1.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - TACP SIM Support Cost</i>	-	-	-	-	-	-	-	-	1.398	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	1.539	-	-	3.961	-	-	2.722	-	-	-	-	-	2.722

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**Exhibit P-5, Cost Analysis:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> AFSPECWAR - TACP
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
AF					
Quantity	-	-	-	-	-
Total Obligation Authority	1.539	3.961	2.722	-	2.722
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	1.539	3.961	2.722	-	2.722

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> AFSPECWAR - TACP
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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
Digitally Aided CAS <sup>(†)</sup>		2021	CAE USA, Inc / Arlington, TX	SS / FFP	WPAFB, OH	Jun 2021	Jun 2023	3	0.513	Y		
Digitally Aided CAS <sup>(†)</sup>		2022	CAE USA, Inc / Arlington, TX	SS / FFP	WPAFB, OH	Jun 2022	Jun 2023	1	1.000	Y		

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> AFSPECWAR - TACP
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021														Fiscal Year 2022														BALANCE
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Digitally Aided CAS																																			
1		2021	AF	3	0	3											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3			
1		2022	AF	1	0	1																											1		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024													
							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	
Digitally Aided CAS																																
	1	2021	AF	3	0	3	-	-	-	-	-	-	-	-	-	-																0
	1	2022	AF	1	0	1	-	-	-	-	-	-	-	-	-	-																0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> AFSPECWAR - TACP
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	CAE USA, Inc - Arlington, TX	1	5	10	1	9	12	21	0	0	0	0

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Deployable C3 Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	36.557	57.306	34.829	-	34.829
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	36.557	57.306	34.829	-	34.829
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>36.557</b>	<b>57.306</b>	<b>34.829</b>	-	<b>34.829</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Deployable C3 Systems Cost</b>																		
Recurring Cost																		
TDC - Network Control Center - Deployed <sup>(†)</sup>	-	-	-	0.033	301	9.809	0.144	98	14.099	0.116	82	9.549	-	-	-	0.116	82	9.549
TDC - Integrated Communications Access Packages <sup>(†)</sup>	-	-	-	0.820	20	16.401	1.119	36	40.280	0.369	61	22.513	-	-	-	0.369	61	22.513
TDC - Satcom Terminals	-	-	-	0.051	154	7.782	0.101	1	0.101	0.100	1	0.100	-	-	-	0.100	1	0.100
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	33.992	-	-	54.480	-	-	32.162	-	-	-	-	-	32.162
<i>Subtotal: Hardware - Deployable C3 Systems Cost</i>	-	-	-	-	-	33.992	-	-	54.480	-	-	32.162	-	-	-	-	-	32.162
<b>Support - Deployable C3 Systems Cost</b>																		
Program Support Costs - Contractor Services	-	-	-	-	-	1.282	-	-	1.416	-	-	1.742	-	-	-	-	-	1.742
Program Support Costs - Other Government Costs	-	-	-	-	-	1.283	-	-	1.410	-	-	0.925	-	-	-	-	-	0.925
<i>Subtotal: Support - Deployable C3 Systems Cost</i>	-	-	-	-	-	2.565	-	-	2.826	-	-	2.667	-	-	-	-	-	2.667
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	36.557	-	-	57.306	-	-	34.829	-	-	-	-	-	34.829

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Deployable C3 Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	7.265	17.790	14.427	-	14.427
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	23.828	32.802	16.362	-	16.362
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	5.464	6.714	4.040	-	4.040
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>36.557</b>	<b>57.306</b>	<b>34.829</b>	-	<b>34.829</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Deployable C3 Systems
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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
TDC - Network Control Center - Deployed <sup>(†)</sup>		2021	Telos Corp / Ashburn, VA	C / FFP	Hanscom AFB	Dec 2020	Feb 2022	301	0.033	Y		Oct 2020
TDC - Network Control Center - Deployed <sup>(†)</sup>		2022	TBD / TBD	TBD	Hanscom AFB	Aug 2022	Feb 2023	98	0.144	Y		Jun 2022
TDC - Network Control Center - Deployed <sup>(†)</sup>		2023	TBD / TBD	TBD	Hanscom AFB	Aug 2023	Feb 2024	82	0.116	Y		Apr 2023
TDC - Integrated Communications Access Packages <sup>(†)</sup>		2021	Telos Corp / Ashburn, VA	C / FFP	Hanscom AFB	Mar 2021	Oct 2021	20	0.820	Y		Jan 2021
TDC - Integrated Communications Access Packages <sup>(†)</sup>		2022	TBD / TBD	C / FFP	Hanscom AFB	Aug 2022	Feb 2023	21	1.119	Y		Feb 2022
TDC - Integrated Communications Access Packages <sup>(†)</sup>		2022	Paragon Micro Inc / Lake Aurich, II	C / FFP	Hanscom AFB	Feb 2022	Aug 2022	15	1.119	Y		Dec 2021
TDC - Integrated Communications Access Packages <sup>(†)</sup>		2023	Parogon Micr Inc / Lake Aurich, III	C / FFP	Hanscom AFB	Feb 2023	Aug 2023	61	0.369	Y		Dec 2022

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Deployable C3 Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022																
							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						
TDC - Network Control Center - Deployed																																				
	1	2021	AF	301	0	301				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	101		0		
	2	2022	AF	98	0	98																											A -	-	98	
	2	2023	AF	82	0	82																													82	
TDC - Integrated Communications Access Packages																																				
	3	2021	AF	20	0	20																													0	
	4	2022	AF	21	0	21																												A -	-	21
	5	2022	AF	15	0	15																													0	
	6	2023	AF	61	0	61																													61	
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Deployable C3 Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
TDC - Network Control Center - Deployed																															
	1	2021	AF	301	301	0																							0		
	2	2022	AF	98	0	98	-	-	-	-	98																		0		
	2	2023	AF	82	0	82																							0		
TDC - Integrated Communications Access Packages																															
	3	2021	AF	20	20	0																							0		
	4	2022	AF	21	0	21	-	-	-	-	21																		0		
	5	2022	AF	15	15	0																							0		
	6	2023	AF	61	0	61																							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Deployable C3 Systems
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Telos Corp - Ashburn, VA				0	0	0	0	0	0	0	0	0
2	TBD - TBD			500	0	0	0	0	0	0	11	6	17
3	Telos Corp - Ashburn, VA				0	0	0	0	0	0	0	0	0
4	TBD - TBD				0	0	0	0	0	0	0	0	0
5	Paragon Micro Inc - Lake Aurich, Il				0	0	0	0	0	0	0	0	0
6	Paragon Micr Inc - Lake Aurich, Ill			500	0	0	0	0	0	0	5	6	11

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Advanced Communications Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	6.403	6.214	10.834	-	10.834
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	6.403	6.214	10.834	-	10.834
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>6.403</b>	<b>6.214</b>	<b>10.834</b>	-	<b>10.834</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Software - Advanced Communications Systems Cost																		
Recurring Cost																		
MUOS Contracts <sup>(†)</sup>	-	-	-	1.000	6	6.000	0.545	11	5.998	0.965	11	10.618	-	-	-	0.965	11	10.618
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.000	-	-	5.998	-	-	10.618	-	-	-	-	-	10.618
<i>Subtotal: Software - Advanced Communications Systems Cost</i>	-	-	-	-	-	6.000	-	-	5.998	-	-	10.618	-	-	-	-	-	10.618
Support - Advanced Communications Systems Cost																		
Program Support	-	-	-	-	-	0.403	-	-	0.216	-	-	0.216	-	-	-	-	-	0.216
<i>Subtotal: Support - Advanced Communications Systems Cost</i>	-	-	-	-	-	0.403	-	-	0.216	-	-	0.216	-	-	-	-	-	0.216
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	6.403	-	-	6.214	-	-	10.834	-	-	-	-	-	10.834

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Total Obligation Authority	6.403	6.214	10.834	-	10.834
<b>Total: Secondary Distribution</b>	<b>6.403</b>	<b>6.214</b>	<b>10.834</b>	-	<b>10.834</b>

(†) indicates the presence of a P-5a



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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Advanced Communications Systems
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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
MUOS Contracts <sup>(†)</sup>		2021	DLA TROOP SUPPORT C&E / PHILADELPHIA, PA	MIPR	N/A	Jul 2021	Jul 2022	6	1.000	Y		Jan 2021
MUOS Contracts <sup>(†)</sup>		2022	DLA TROOP SUPPORT C&E / PHILADELPHIA, PA	MIPR	N/A	Apr 2022	Apr 2023	11	0.545	Y		Jan 2022
MUOS Contracts <sup>(†)</sup>		2023	DLA TROOP SUPPORT C&E / PHILADELPHIA, PA	MIPR	N/A	Apr 2023	Apr 2024	11	0.965	Y		Jan 2023

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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]:** Advanced Communications Systems

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021														Fiscal Year 2022														BALANCE							
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022																					
							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												
MUOS Contracts																																										
1		2021	AF	6	0	6												A	-	-	-	-	-	-	-	-	-	-	6			0										
1		2022	AF	11	0	11																									A	-	-	-	-	-	-			11		
1		2023	AF	11	0	11																																		11		

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Advanced Communications Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 2	BAL D U E A S O F 1 O C T	Calendar Year 2023													Calendar Year 2024													
							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			
MUOS Contracts																																	
1		2021	AF	6	6	0																							0				
1		2022	AF	11	0	11	-	-	-	-	-	-	11																0				
1		2023	AF	11	0	11							A	-	-	-	-	-	-	-	-	-	-	11					0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Advanced Communications Systems
---	---	--

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	DLA TROOP SUPPORT C&E - PHILADELPHIA, PA	1	25	100	0	0	0	0	4	7	12	19

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

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

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Tactical Air Control Party-Mod
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	50.093	52.200	53.632	-	53.632
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	50.093	52.200	53.632	-	53.632
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>50.093</b>	<b>52.200</b>	<b>53.632</b>	-	<b>53.632</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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)	-	-	-	0.140	28	3.909	0.231	3	0.692	-	-	-	-	-	-	-	-	-
MOBILE COMMUNICATIONS SYSTEM (MCS) Block 2	-	-	-	0.221	137	30.246	0.465	18	8.362	-	-	-	-	-	-	-	-	-
ARMORED MULTI-PURPOSE VEHICLE (AMPV)	-	-	-	0.600	5	3.001	0.706	5	3.529	0.713	6	4.276	-	-	-	0.713	6	4.276
Joint Light Tactical Vehicle (JLTV) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.501	37	18.541	-	-	-	0.501	37	18.541
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	37.156	-	-	12.583	-	-	22.817	-	-	-	-	-	22.817
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	37.156	-	-	12.583	-	-	22.817	-	-	-	-	-	22.817
Hardware - Hardware end item Cost																		
Non Recurring Cost																		
MCS Block 1 School House	-	-	-	0.007	1	0.007	-	-	-	-	-	-	-	-	-	-	-	-
AN/PRC-161 HH L-16	-	-	-	0.021	111	2.353	0.051	250	12.768	-	-	-	-	-	-	-	-	-
TAKBox	-	-	-	-	-	-	-	-	-	0.002	113	0.181	-	-	-	0.002	113	0.181
ASOC MOD	-	-	-	-	-	-	2.426	1	2.426	1.917	1	1.917	-	-	-	1.917	1	1.917

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment						<b>Item Number / Title [DODIC]:</b> Tactical Air Control Party-Mod					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Maneuver Gateway (MG) Phase I	-	-	-	-	-	-	0.303	25	7.573	-	-	-	-	-	-	-	-	-
MIDS JTRS BLK Upgrade	-	-	-	-	-	-	0.117	28	3.286	-	-	-	-	-	-	-	-	-
Maneuver Gateway (MG) Phase II <sup>(f)</sup>	-	-	-	-	-	-	-	-	-	0.577	27	15.574	-	-	-	0.577	27	15.574
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	2.360	-	-	26.053	-	-	17.672	-	-	-	-	-	17.672
<i>Subtotal: Hardware - Hardware end item Cost</i>	-	-	-	-	-	2.360	-	-	26.053	-	-	17.672	-	-	-	-	-	17.672
<b>Support - 0207444F Cost</b>																		
CRANE SUPPORT	-	-	-	4.760	1	4.760	5.921	1	5.921	6.028	1	6.028	-	-	-	6.028	1	6.028
MANAGEMENT SERVICES - CONTRACTOR SERVICES	-	-	-	3.883	1	3.883	5.372	1	5.372	5.293	1	5.293	-	-	-	5.293	1	5.293
MANAGEMENT SERVICES - OTHER GOVT COSTS	-	-	-	1.034	1	1.034	0.542	1	0.542	0.537	1	0.537	-	-	-	0.537	1	0.537
TEST SUPPORT	-	-	-	0.900	1	0.900	1.065	1	1.065	1.084	1	1.084	-	-	-	1.084	1	1.084
AN/PRC-161 (HH L-16)	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
TTG ICS	-	-	-	-	-	-	0.200	1	0.200	0.130	1	0.130	-	-	-	0.130	1	0.130
MCS B2 ICS & Contractor Travel	-	-	-	-	-	-	0.464	1	0.464	0.071	1	0.071	-	-	-	0.071	1	0.071
<i>Subtotal: Support - 0207444F Cost</i>	-	-	-	-	-	10.577	-	-	13.564	-	-	13.143	-	-	-	-	-	13.143
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	50.093	-	-	52.200	-	-	53.632	-	-	-	-	-	53.632

**Remarks:**

FY22-23

MCS Block 3 (AMPV) - XXXXXXXX

MCS Block 4 (JLTV) - Cost increase due to inflation, plus field training unit included in contract pricing (FY23)

ASOC-Mod - Cost decrease as funding in FY22 includes hardware & software, funding in FY23 includes software only

NSWC Crane - Cost increase due to inflation

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**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Tactical Air Control Party-Mod
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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TTG ICS - Costs decrease due to hours negotiated down

Management Services - Cost decrease due to CASS 1.4.5 software sun setting as WARHAWK software coming on board

<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2023 Total</b>
AF						
Quantity	-	-	-	-	-	-
Total Obligation Authority	50.093	52.200	53.632	-	53.632	53.632
<b>Total:</b>						
<b>Quantity</b>	-	-	-	-	-	-
<b>Total Obligation Authority</b>	<b>50.093</b>	<b>52.200</b>	<b>53.632</b>	-	<b>53.632</b>	<b>53.632</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Tactical Air Control Party-Mod
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Joint Light Tactical Vehicle (JLTV) <sup>(†)</sup>		2023	TBD / TBD	Various	Hanscom AFB	Jun 2023	Sep 2023	37	0.501	Y		
Maneuver Gateway (MG) Phase II <sup>(†)</sup>		2023	TBD / TBD	Various	Hanscom AFB	Jun 2023	Sep 2023	27	0.577	Y		

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



**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Tactical Air Control Party-Mod
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
Joint Light Tactical Vehicle (JLTV)																																			
	1	2023	AF	37	0	37																								0					
Maneuver Gateway (MG) Phase II																																			
	2	2023	AF	27	0	27																								0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Tactical Air Control Party-Mod
---	---	---

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD			50	0	0	0	0	0	1	9	3	12
2	TBD - TBD			50	0	0	0	0	0	0	9	3	12

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

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

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Special Tactics / Combat Control
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	29.021	38.136	18.033	-	18.033
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	29.021	38.136	18.033	-	18.033
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>29.021</b>	<b>38.136</b>	<b>18.033</b>	-	<b>18.033</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Hardware End Item Cost</b>																		
Recurring Cost																		
HUMAN MACHINE INTERFACE <sup>(†)</sup>	-	-	-	0.014	1,186	16.604	0.014	1,569	21.959	0.014	668	9.352	-	-	-	0.014	668	9.352
OPERATIONAL CONTROL SYSTEM (BAO KIT) <sup>(†)</sup>	-	-	-	0.011	840	9.220	0.011	1,137	12.510	0.011	536	5.896	-	-	-	0.011	536	5.896
LINE OF SIGHT	-	-	-	0.040	36	1.440	0.040	45	1.814	0.040	21	0.840	-	-	-	0.040	21	0.840
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	27.264	-	-	36.283	-	-	16.088	-	-	-	-	-	16.088
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	27.264	-	-	36.283	-	-	16.088	-	-	-	-	-	16.088
<b>Support - Support End Item Cost</b>																		
MANAGEMENT SERVICES - CONTRACTOR SERVICES	-	-	-	-	-	1.033	-	-	1.093	-	-	1.147	-	-	-	-	-	1.147
MANAGEMENT SERVICES - OTHER GOVERNMENT COSTS	-	-	-	-	-	0.724	-	-	0.760	-	-	0.798	-	-	-	-	-	0.798
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	1.757	-	-	1.853	-	-	1.945	-	-	-	-	-	1.945
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	29.021	-	-	38.136	-	-	18.033	-	-	-	-	-	18.033

**Remarks:**

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Special Tactics / Combat Control
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

- a. Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.
- b. Management Services: Cost support management with engineering and technical implementation. Supports Program TDC with Engineering, and technical support activities.

	Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	29.021	38.136	18.033	-	18.033
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>29.021</b>	<b>38.136</b>	<b>18.033</b>	-	<b>18.033</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Special Tactics / Combat Control
---	---	---

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 <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Nov 2020	Jul 2021	1,186	0.014	Y		Oct 2020
HUMAN MACHINE INTERFACE <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Nov 2021	Jul 2022	1,569	0.014	Y		Oct 2021
HUMAN MACHINE INTERFACE <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Nov 2022	Jul 2023	668	0.014	Y		Oct 2022
OPERATIONAL CONTROL SYSTEM (BAO KIT) <sup>(†)</sup>		2021	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2021	Sep 2021	840	0.011	Y		Nov 2020
OPERATIONAL CONTROL SYSTEM (BAO KIT) <sup>(†)</sup>		2022	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2022	Sep 2022	1,137	0.011	Y		Nov 2021
OPERATIONAL CONTROL SYSTEM (BAO KIT) <sup>(†)</sup>		2023	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2023	Sep 2023	536	0.011	Y		Nov 2022

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

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022													
							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	
HUMAN MACHINE INTERFACE																																
	1	2021	AF	1,186	0	1,186		A	-	-	-	-	-	-	-	-	50	75	36	100	100	75	100	125	150	100	125	150		0		
	1	2022	AF	1,569	0	1,569															A	-	-	-	-	-	-	-	110	75	100	1,284
	1	2023	AF	668	0	668																									668	
OPERATIONAL CONTROL SYSTEM (BAO KIT)																																
	2	2021	AF	840	0	840				A	-	-	-	-	-	-	-	55	50	75	60	65	75	80	70	90	70	65	85	0		
	2	2022	AF	1,137	0	1,137																A	-	-	-	-	-	-	-	-	55	1,082
	2	2023	AF	536	0	536																									536	
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
								C	O	E	A	E	A	A	U	U	A	E	C	O	O	E	A	E	A	A	U	U	A	S		
								T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	G	P	

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
HUMAN MACHINE INTERFACE																																	
	1	2021	AF	1,186	1,186	0																							0				
	1	2022	AF	1,569	285	1,284	125	150	100	150	134	165	130	175	155														0				
	1	2023	AF	668	0	668		A	-	-	-	-	-	-	-	75	75	80	60	70	65	70	70	60	43				0				
OPERATIONAL CONTROL SYSTEM (BAO KIT)																																	
	2	2021	AF	840	840	0																							0				
	2	2022	AF	1,137	55	1,082	70	50	90	100	70	95	150	100	125	150	82												0				
	2	2023	AF	536	0	536				A	-	-	-	-	-	-	-	-	60	70	50	60	50	70	50	50	50	26	0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> Special Tactics / Combat Control
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Multiple - Multiple	1	1	1,000	1	2	8	10	0	0	0	0
2	Black Diamond, LLC - AZ	1	1	600	1	4	8	12	0	0	0	0

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



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	13.840	14.232	14.053	-	14.053	14.509	34.642	35.616	36.317	-	163.209
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	13.840	14.232	14.053	-	14.053	14.509	34.642	35.616	36.317	-	163.209
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>13.840</b>	<b>14.232</b>	<b>14.053</b>	-	<b>14.053</b>	<b>14.509</b>	<b>34.642</b>	<b>35.616</b>	<b>36.317</b>	-	<b>163.209</b>

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

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

**Description:**

The High Frequency Global Communications System (HFGCS) equipment replacement program procures, integrates, modernizes/technical refresh, and fields 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 beyond-line-of-sight 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 DoD; (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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Radio Equipment	P-5a, P-21	A		- / -	- / 13.840	- / 14.232	- / 14.053	- / -	- / 14.053
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 13.840</b>	<b>- / 14.232</b>	<b>- / 14.053</b>	<b>- / -</b>	<b>- / 14.053</b>

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

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

**Justification:**

1. 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 FY23 HFGCS Network Infrastructure program includes, but is not limited to, the Unified Capabilities/Audio Communications Functionality (UC/ACF) switch technical refresh, robust system status and fault management, eliminate interdependencies between network control stations for true autonomous operations, and start replacement of DMS scanning receivers. FY23 begins installation of HF Modernization equipment that includes, but not limited to more robust waveforms and techniques to increase resiliency and reliability beginning basic mesh network integration. 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. FY2023 funds 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 unsupported. It moves the HFGCS network of radio stations from a hub-spoke configuration to a true cloud environment.

B. FY2023 funds 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. The USAF is two years behind the Navy with regard to radio modernization. Due to the tight integration of the USAF and Navy equipment at the West Coast station, the USAF will fund the Beale AFB at Lincoln, CA, portion of that station upgrade. In addition, the USAF will purchase and install the first 4 stations of sense and respond equipment in support of strategic NC3 HF Modernization requirement.

C. FY2023 funds Scope Command COTS Obsolescence Win Server and database replication replacement. The HFGCS system control servers and hosted software are becoming unsupported 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.

D. FY2023 funds integration and replacement of the scanning receiver equipment enterprise wide to replace the obsolete non-supportable equipment in the system. This critical component scans all critical mission frequencies for voice/data detection and alerts radio operators of an incoming call. Without these devices, the Scope Command system could not support any mission.

E. FY2023 funds system logging/status reporting and autonomous operation of the system absent of the Network Control Stations (NCS). This will result in more reliable NCS operations, mission stability, and the ability of the system to report anomalous functioning to operators and cybersecurity personnel.

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. FY2023 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. FY2023 efforts include, but are not limited to, replacing three antennas across the

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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.</p> <p>3. FY2023 funds for program management administration costs will provide travel, financial management, engineering, and technical support for the program office. FY2023 also funds Direct Mission Support, including support associated with engineering, sustainment engineering, shipping, and implementation. This includes operational acceptance testing and technical interchange meetings.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment			<b>Item Number / Title [DODIC]:</b> Radio Equipment		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>		
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )			-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )			-	13.840	14.232	14.053	-	14.053
Less PY Advance Procurement ( <i>\$ in Millions</i> )			-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )			-	13.840	14.232	14.053	-	14.053
Plus CY Advance Procurement ( <i>\$ in Millions</i> )			-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )			-	<b>13.840</b>	<b>14.232</b>	<b>14.053</b>	-	<b>14.053</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares ( <i>\$ in Millions</i> )			-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Antenna Replacement Cost																		
Recurring Cost																		
HFGCS Station Antenna Replacements <sup>(†)</sup>	-	-	-	1.121	5	5.605	1.550	1	1.550	1.623	3	4.869	-	-	-	1.623	3	4.869
Antenna Site Support <sup>(†)</sup>	-	-	-	0.327	1	0.327	0.300	1	0.300	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.932	-	-	1.850	-	-	4.869	-	-	-	-	-	4.869
<i>Subtotal: Hardware - Antenna Replacement Cost</i>	-	-	-	-	-	5.932	-	-	1.850	-	-	4.869	-	-	-	-	-	4.869
Hardware - Scope Command/Radio Network Infrastructure Cost																		
Recurring Cost																		
Unified Capabilities/Audio Communications Functionality (UC/ACF) <sup>(†)</sup>	-	-	-	4.576	1	4.576	7.614	1	7.614	0.110	1	0.110	-	-	-	0.110	1	0.110
Receive Matrix Replacement <sup>(†)</sup>	-	-	-	1.048	1	1.048	-	-	-	-	-	-	-	-	-	-	-	-
HF Modernization <sup>(†)</sup>	-	-	-	1.000	1	1.000	1.000	1	1.000	0.590	1	0.590	-	-	-	0.590	1	0.590
COTS Obsolescence <sup>(†)</sup>	-	-	-	-	-	-	2.500	1	2.500	0.200	1	0.200	-	-	-	0.200	1	0.200
Scanning Receiver Modernization <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	3.020	1	3.020	-	-	-	3.020	1	3.020

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7							<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment						<b>Item Number / Title [DODIC]:</b> Radio Equipment					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A											<b>MDAP/MAIS Code:</b>							

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Status Reporting & Autonomous Ops <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	3.464	1	3.464	-	-	-	3.464	1	3.464
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.624	-	-	11.114	-	-	7.384	-	-	-	-	-	7.384
<i>Subtotal: Hardware - Scope Command/Radio Network Infrastructure Cost</i>	-	-	-	-	-	6.624	-	-	11.114	-	-	7.384	-	-	-	-	-	7.384
<b>Support - DMS/MS Cost</b>																		
Direct Mission Support (DMS)	-	-	-	-	-	0.753	-	-	0.693	-	-	0.675	-	-	-	-	-	0.675
Management Services (MS) - Contractor Services	-	-	-	-	-	0.403	-	-	0.450	-	-	0.985	-	-	-	-	-	0.985
Management Services - Other Government Costs	-	-	-	-	-	0.128	-	-	0.125	-	-	0.140	-	-	-	-	-	0.140
<i>Subtotal: Support - DMS/MS Cost</i>	-	-	-	-	-	1.284	-	-	1.268	-	-	1.800	-	-	-	-	-	1.800
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	13.840	-	-	14.232	-	-	14.053	-	-	-	-	-	14.053

**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.

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

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<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force</b>							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment				<b>Item Number / Title [DODIC]:</b> Radio Equipment				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
HFGCS Station Antenna Replacements <sup>(†)</sup>		2021	Long Wave, Inc. / Oklahoma City, OKC	Various	AFLCMC Tinker AFB	Oct 2020	May 2022	5	1.121	Y		
HFGCS Station Antenna Replacements <sup>(†)</sup>		2022	Long Wave, Inc. / Oklahoma City, OKC	Various	AFLCMC Tinker AFB	Oct 2021	Apr 2023	1	1.550	Y		
HFGCS Station Antenna Replacements <sup>(†)</sup>		2023	Long Wave Inc. / Oklahoma City, OKC	Various	AFLCMC Tinker AFB	Oct 2022	Apr 2024	3	1.623	Y		
Antenna Site Support <sup>(†)</sup>		2021	Long Wave, Inc. / Oklahoma City, OKC	Various	AFLCMC Tinker AFB	Jan 2022	Jan 2023	1	0.327	Y		
Antenna Site Support <sup>(†)</sup>		2022	Long Wave, Inc. / Oklahoma City, OKC	Various	AFLCMC Tinker AFB	Apr 2022	Apr 2023	1	0.300	Y		
Unified Capabilities/Audio Communications Functionality (UC/ACF) <sup>(†)</sup>		2021	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Feb 2021	Jan 2022	1	4.576	Y		
Unified Capabilities/Audio Communications Functionality (UC/ACF) <sup>(†)</sup>		2022	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Jan 2022	Jan 2023	1	7.614	Y		
Unified Capabilities/Audio Communications Functionality (UC/ACF) <sup>(†)</sup>		2023	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Jan 2023	Jan 2024	1	0.110	Y		
Receive Matrix Replacement <sup>(†)</sup>		2021	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Feb 2021	Feb 2022	1	1.048	Y		
HF Modernization <sup>(†)</sup>		2021	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Apr 2021	Apr 2022	1	1.000	Y		
HF Modernization <sup>(†)</sup>		2022	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Apr 2022	Apr 2023	1	1.000	Y		
HF Modernization <sup>(†)</sup>		2023	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Apr 2023	Apr 2024	1	0.590	Y		
COTS Obsolescence <sup>(†)</sup>		2022	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Dec 2021	Oct 2022	1	2.500	Y		
COTS Obsolescence <sup>(†)</sup>		2023	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Dec 2022	Oct 2023	1	0.200	Y		
Scanning Receiver Modernization <sup>(†)</sup>		2023	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Mar 2023	Mar 2024	1	3.020	Y		
Status Reporting & Autonomous Ops <sup>(†)</sup>		2023	Collins Aerospace / Cedar Rapids, IA	Various	AFLCMC Tinker AFB	Mar 2023	Apr 2024	1	3.464	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment	<b>Item Number / Title [DODIC]:</b> Radio Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
HFGCS Station Antenna Replacements																																			
	1	2021	AF	5	0	5	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5		0					
	1	2022	AF	1	0	1															A	-	-	-	-	-	-	-	-	-	1				
	2	2023	AF	3	0	3																								3					
Antenna Site Support																																			
	3	2021	AF	1	0	1																								1					
	3	2022	AF	1	0	1																						A	-	1					
Unified Capabilities/Audio Communications Functionality (UC/ACF)																																			
	4	2021	AF	1	0	1																								0					
	4	2022	AF	1	0	1																								1					
	4	2023	AF	1	0	1																								1					
Receive Matrix Replacement																																			
	5	2021	AF	1	0	1																								0					
HF Modernization																																			
	6	2021	AF	1	0	1																								0					
	6	2022	AF	1	0	1																								1					
	6	2023	AF	1	0	1																								1					
COTS Obsolescence																																			
	7	2022	AF	1	0	1																								1					
	7	2023	AF	1	0	1																								1					
Scanning Receiver Modernization																																			
	8	2023	AF	1	0	1																								1					
Status Reporting & Autonomous Ops																																			
	9	2023	AF	1	0	1																								1					
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	A	A	A	U	U	U	E					
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment	<b>Item Number / Title [DODIC]:</b> Radio Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 2	BAL D U E A S O F 1 O C T	Calendar Year 2023														Calendar Year 2024												
							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			
HFCCS Station Antenna Replacements																																	
	1	2021	AF		5	5	0																								0		
	1	2022	AF		1	0	1	-	-	-	-	-	-	-	1																0		
	2	2023	AF		3	0	3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	0			
Antenna Site Support																																	
	3	2021	AF		1	0	1	-	-	-	-	1																		0			
	3	2022	AF		1	0	1	-	-	-	-	-	-	1																0			
Unified Capabilities/Audio Communications Functionality (UC/ACF)																																	
	4	2021	AF		1	1	0																							0			
	4	2022	AF		1	0	1	-	-	-	-	1																		0			
	4	2023	AF		1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0			
Receive Matrix Replacement																																	
	5	2021	AF		1	1	0																							0			
HF Modernization																																	
	6	2021	AF		1	1	0																							0			
	6	2022	AF		1	0	1	-	-	-	-	-	-	1																0			
	6	2023	AF		1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0			
COTS Obsolescence																																	
	7	2022	AF		1	0	1	1																						0			
	7	2023	AF		1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0			
Scanning Receiver Modernization																																	
	8	2023	AF		1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0			
Status Reporting & Autonomous Ops																																	
	9	2023	AF		1	0	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0			
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment
		<b>Item Number / Title [DODIC]:</b> Radio Equipment

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Long Wave, Inc. - Oklahoma City, OKC				0	0	0	0	0	0	0	0	0
2	Long Wave Inc. - Oklahoma City, OKC	1	1	3	1	1	18	19	0	0	0	0	0
3	Long Wave, Inc. - Oklahoma City, OKC	1	1	1	1	7	12	19	0	0	0	0	0
4	Collins Aerospace - Cedar Rapids, IA	1	1	1	1	4	12	16	0	0	0	0	0
5	Collins Aerospace - Cedar Rapids, IA	1	1	1	1	5	12	17	0	0	0	0	0
6	Collins Aerospace - Cedar Rapids, IA	1	1	1	1	7	12	19	0	0	0	0	0
7	Collins Aerospace - Cedar Rapids, IA	1	1	1	1	3	10	13	0	0	0	0	0
8	Collins Aerospace - Cedar Rapids, IA	1	1	1	1	6	12	18	0	0	0	0	0
9	Collins Aerospace - Cedar Rapids, IA	1	1	1	1	6	13	19	0	0	0	0	0

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

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 / 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	5.255	0.000	0.000	-	0.000	438.713	292.475	0.000	0.000	-	736.443
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	5.255	0.000	0.000	-	0.000	438.713	292.475	0.000	0.000	-	736.443
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>5.255</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	<b>438.713</b>	<b>292.475</b>	<b>0.000</b>	<b>0.000</b>	-	<b>736.443</b>

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

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

**Description:**

Funding 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.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 / 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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Visual Information Activities - Strategic		A		- / -	- / 5.255	- / 0.000	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 5.255	- / 0.000	- / 0.000	- / -	- / 0.000

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

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

**Justification:**  
No Budget Year FY22 funds requested.

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**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837240 / 837240 CCTV/AUDIOVISUAL EQUIPMENT	<b>Item Number / Title [DODIC]:</b> Visual Information Activities - Strategic
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	5.255	0.000	0.000	-	0.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	5.255	0.000	0.000	-	0.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>5.255</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>
Hardware - Visual Information Activities - Strategic Cost																		
Recurring Cost																		
CCTV/AUDIO VISUAL EQUIPMENT - AB1000 COMCAM	-	-	-	-	-	5.255	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.255	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - Visual Information Activities - Strategic Cost</i>	-	-	-	-	-	5.255	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	5.255	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	205.419	201.547	91.313	-	91.313	57.724	80.745	66.815	57.061	-	760.624
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	205.419	201.547	91.313	-	91.313	57.724	80.745	66.815	57.061	-	760.624
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>205.419</b>	<b>201.547</b>	<b>91.313</b>	-	<b>91.313</b>	<b>57.724</b>	<b>80.745</b>	<b>66.815</b>	<b>57.061</b>	-	<b>760.624</b>

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

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

**Description:**

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.  
 FY23 funding totals include 3.819M requested for Enduring Requirements.

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 and 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. Collateral Equipment is a FY23 new start.

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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 VC-25B Complex Communication Equipment is a FY 2023 new start. The VC-25B Program, formerly known as the Presidential Aircraft Recapitalization (PAR) Program, will replace the Presidential VC-25A fleet 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 Commander-in-Chief, Head of State, and Chief Executive.</p> <p>PE 0804701F ADVANCED PILOT TRAINING T-7A - P-40A Advanced Pilot Training Communication Equipment is a FY 2023 New Start. Advanced Pilot Training (APT) T-7A (formerly known as T-X) Program will develop, test, acquire, and sustain an affordable, agile, and integrated APT System consisting of 351 aircraft, Ground Based Training System, Maintenance Training System, support, infrastructure, and personnel to meet Air Education and Training Command's (AETC) need/start date of FY 2024.</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 and 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 and 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.</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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> <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</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

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.

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 and 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 and 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	195.392	191.857	74.689	-	74.689	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.675	9.337	16.285	-	16.285	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.352	0.353	0.339	-	0.339	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>205.419</b>	<b>201.547</b>	<b>91.313</b>	-	<b>91.313</b>	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Atmospheric Early Warning System	P-5a, P-21	A		- / -	- / 3.994	- / 3.953	- / 0.000	- / -	- / 0.000
P-5	Electronic Warfare Integrated Reprogramming (EWIR)	P-5a, P-21	A		- / -	- / 0.000	- / 1.976	- / 0.000	- / -	- / 0.000
P-5	Collateral Equipment - Tactical Air Forces	P-5a, P-21	A		- / -	- / 2.216	- / 0.000	- / 0.000	- / -	- / 0.000
P-5	Theater Nuclear Weapon Storage & Security System	P-5a, P-21	A		- / -	- / 5.494	- / 58.445	- / 17.209	- / -	- / 17.209
P-5	Communications and Information Technology		A		- / -	- / 5.412	- / 0.000	- / 0.000	- / -	- / 0.000
P-5	VC-25B	P-5a	A		- / -	- / 0.000	- / 0.000	- / 0.378	- / -	- / 0.378
P-5	Advanced Pilot Training System T-7A	P-5a	A		- / -	- / 0.000	- / 0.000	- / 0.700	- / -	- / 0.700
P-5	MQ-9 UAV	P-5a, P-21	A		- / -	- / 82.160	- / 70.370	- / 6.401	- / -	- / 6.401
P-5	Information Technology Services Management - Tactical Air Forces	P-5a	A		- / -	- / 0.187	- / 0.000	- / 0.000	- / -	- / 0.000
P-5	EIT CONNECT	P-5a, P-21	A		- / -	- / 16.289	- / 16.407	- / 27.914	- / -	- / 27.914
P-5	EIT END USER DEVICES	P-5a, P-21	A		- / -	- / 79.640	- / 40.705	- / 22.087	- / -	- / 22.087
P-5	Information Technology Services Management - AFR	P-5a, P-21	A		- / -	- / 0.352	- / 0.353	- / 0.339	- / -	- / 0.339
P-5	Information Technology Services Management - ANG	P-5a, P-21	A		- / -	- / 9.675	- / 9.337	- / 16.285	- / -	- / 16.285
P-5	Information Technology Services Management - Logistics		A		- / -	- / 0.000	- / 0.001	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 205.419</b>	<b>- / 201.547</b>	<b>- / 91.313</b>	<b>- / -</b>	<b>- / 91.313</b>

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

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

**Justification:**  
 This program, PE 0401319F BCI P-5, is a new start.  
 This program, PE 0804701F BCI P-5, is a new start.

PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P40A  
 FY 2023 no funding requested.

PE 0102325F Atmospheric Early Warning System - P-40A  
 Atmospheric Early Working System (PE 0102325F)  
 FY23 no funding requested.

PE 0208535F Collateral Equipment - Tactical Air Forces - P-40A  
 Collateral Equipment - Tactical Air Forces PE 0208535f/EIC - FP15:  
 European Infrastructure Consolidation (EIC):  
 FY23 funding procures equipment to support the European Infrastructure Consolidation (EIC)

PE 0308611F Communications and Information Technology - P-40A

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>AFSPC Communications Infrastructure Equipment: FY23 no funding requested.</p> <p>PE 0401319F VC-25B - P-40A VC-25B Complex Communication Equipment is a FY 2023 new start. FY 2023 funding procures base communications infrastructure equipment for the new VC-25B (PAR) Complex military construction project to support the Presidential Airlift Group.</p> <p>PE 0804701F ADVANCED PILOT TRAINING T-7A - P-40A Advanced Pilot Training T-7A Facility Communication Equipment is a FY 2023 New Start. FY23 funding procures data, voice, and video base communications infrastructure equipment for the repair and upgrade of the AETC Training Facility renovation project at Randolph Air Force Base, Texas to support the AETC Training Flight for Advanced Pilot Training T-7A.</p> <p>PE 020512F MQ-9 UAV - P-40A MQ-9 Reaper Remotely Piloted Aircraft (RPA) Squadron Operations Centers (SOC): FY23 funding procures necessary hardware and software to finish the final SOC Conversion to the Baseline Configuration. This includes necessary support (Contractor, Engineering, and Installation) and travel in relation to conversion requirements.</p> <p>PE 0303004F EIT CONNECT - P-40A Air Combat Command (ACC) Lead Command Base Communications Infrastructure: E and 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 and 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. FY23 funding procures equipment to support enterprise network capability and life cycle replacement of common user communication systems.</p> <p>PE 0303005F EIT END USER DEVICES - P-40A a. Air Force District Washington (AFDW) Base Communications Network Equipment: FY 2023 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.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 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. FY23 Enduring Requirements funding (3.819M) procure base communication infrastructure.</p> <p>PE 0505550F Information Technology Services Management - AFR - P-40A Air Force Reserve Command (AFRC) Base Communications Infrastructure Equipment: FY 2023 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 2023 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 and Security System - P-40A FY23 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 bed-down 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Atmospheric Early Warning System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	3.994	3.953	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	3.994	3.953	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>3.994</b>	<b>3.953</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Atmospheric Early Warning System Cost																		
Recurring Cost																		
Atmospheric Early Warning System <sup>(t)</sup>	-	-	-	3.994	1	3.994	3.953	1	3.953	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	3.994	-	-	3.953	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Atmospheric Early Warning System Cost	-	-	-	-	-	3.994	-	-	3.953	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>3.994</b>	-	-	<b>3.953</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	3.994	3.953	-	-	-
<b>Total: Secondary Distribution</b>	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	3.994	3.953	0.000	-	0.000

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Atmospheric Early Warning System
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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
Atmospheric Early Warning System <sup>(†)</sup>		2021	Various / Various	Various	Hanscom AFB	Jan 2021	Jul 2021	1	3.994	Y		Oct 2020
Atmospheric Early Warning System <sup>(†)</sup>		2022	Various / Various	Various	Hanscom AFB	Jun 2022	Dec 2022	1	3.953	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Atmospheric Early Warning System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Atmospheric Early Warning System																																			
	1	2021	AF	1	0	1				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0						
	1	2022	AF	1	0	1																					A -	-	-	-	1				
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Atmospheric Early Warning System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Atmospheric Early Warning System																															
1		2021	AF	1	1	0																							0		
1		2022	AF	1	0	1	-	-	1																				0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Atmospheric Early Warning System

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various			10	0	0	0	0	0	0	9	6	15

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	1.976	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	1.976	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.000</b>	<b>1.976</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - EWIR Communications Infrastructure Cost																		
Non Recurring Cost																		
Data Storage Arrays <sup>(†)</sup>	-	-	-	-	-	0.000	0.900	1	0.900	-	-	0.000	-	-	-	-	-	0.000
Data Servers <sup>(†)</sup>	-	-	-	-	-	-	0.488	1	0.488	-	-	-	-	-	-	-	-	-
LAN Switches <sup>(†)</sup>	-	-	-	-	-	-	0.084	1	0.084	-	-	-	-	-	-	-	-	-
Network Interface Storage <sup>(†)</sup>	-	-	-	-	-	-	0.504	1	0.504	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	1.976	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - EWIR Communications Infrastructure Cost</i>	-	-	-	-	-	0.000	-	-	1.976	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	1.976	-	-	0.000	-	-	-	-	-	0.000

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	1.976	0.000	-	0.000
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	1.976	0.000	-	0.000

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure				<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)				

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
Data Storage Arrays <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.900	Y		
Data Servers <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.488	Y		
LAN Switches <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.084	Y		
Network Interface Storage <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/HI - Business & Enterprise Systems	Mar 2022	Apr 2022	1	0.504	Y		

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

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														B A L A N C E	
O C 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					
Data Storage Arrays																																			
	1	2022	AF	1	0	1																											0		
Data Servers																																			
	2	2022	AF	1	0	1																										0			
LAN Switches																																			
	3	2022	AF	1	0	1																										0			
Network Interface Storage																																			
	4	2022	AF	1	0	1																										0			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Electronic Warfare Integrated Reprogramming (EWIR)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various	1	1	1	1	0	0	0	0	0	0	0	0
2	Various - Various	1	1	1	1	0	0	0	0	0	0	0	0
3	Various - Various	1	1	1	1	0	0	0	0	0	0	0	0
4	Various - Various	1	1	1	1	0	0	0	0	0	0	0	0

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Collateral Equipment - Tactical Air Forces

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	2.216	0.000	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	2.216	0.000	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>2.216</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Collateral Equipment - Tactical Air Forces Cost																		
Recurring Cost																		
Collateral Equipment - Tactical Air Forces <sup>(t)</sup>	-	-	-	2.216	1	2.216	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	2.216	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Collateral Equipment - Tactical Air Forces Cost	-	-	-	-	-	2.216	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>2.216</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	2.216	-	-	-	-
<b>Total: Secondary Distribution</b>	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	2.216	0.000	0.000	-	0.000

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



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure				<b>Item Number / Title [DODIC]:</b> Collateral Equipment - Tactical Air Forces					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Collateral Equipment - Tactical Air Forces <sup>(†)</sup>		2021	Various / Various	Various	Hanscom AFB	Jun 2021	Jun 2022	1	2.216	Y		Oct 2020

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure **Item Number / Title [DODIC]:** Collateral Equipment - Tactical Air Forces

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
Collateral Equipment - Tactical Air Forces																															
1		2021	AF	1	0	1																									

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Collateral Equipment - Tactical Air Forces

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various			10	0	9	12	21	0	0	0	0

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Theater Nuclear Weapon Storage & Security System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.494	58.445	17.209	-	17.209
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.494	58.445	17.209	-	17.209
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>5.494</b>	<b>58.445</b>	<b>17.209</b>	-	<b>17.209</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Theater Nuclear Weapon Storage &amp; Security System Cost</b>																		
Recurring Cost																		
Weapons Storage and Security Systems (WS3) Storage Life Extension Program (SLEP) <sup>(†)</sup>	-	-	-	0.549	10	5.494	0.482	22	10.600	-	-	-	-	-	-	-	-	-
Disablement Management System (DMS) <sup>(†)</sup>	-	-	-	-	-	-	0.316	90	28.400	0.538	32	17.209	-	-	-	0.538	32	17.209
Secure Transportable Maintenance System (STMS) <sup>(†)</sup>	-	-	-	-	-	-	1.250	2	2.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.494	-	-	41.500	-	-	17.209	-	-	-	-	-	17.209
<i>Subtotal: Hardware - Theater Nuclear Weapon Storage &amp; Security System Cost</i>	-	-	-	-	-	5.494	-	-	41.500	-	-	17.209	-	-	-	-	-	17.209
<b>Logistics - Theater Nuclear Weapon Storage &amp; Security System Cost</b>																		
Non Recurring Cost																		
Base Communication Infrastructure	-	-	-	-	-	-	16.945	1	16.945	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	16.945	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Theater Nuclear Weapon Storage & Security System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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: Logistics - Theater Nuclear Weapon Storage &amp; Security System Cost</i>	-	-	-	-	-	-	-	-	16.945	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	5.494	-	-	58.445	-	-	17.209	-	-	-	-	-	17.209

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	5.494	58.445	17.209	-	17.209
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	5.494	58.445	17.209	-	17.209

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure				<b>Item Number / Title [DODIC]:</b> Theater Nuclear Weapon Storage & Security System				

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
Weapons Storage and Security Systems (WS3) Storage Life Extension Program (SLEP) <sup>(†)</sup>		2021	Atlantic CommTech / Norfolk, VA	SS / CPFF	AFNWC	Apr 2021	Apr 2021	10	0.549	Y		Nov 2020
Weapons Storage and Security Systems (WS3) Storage Life Extension Program (SLEP) <sup>(†)</sup>		2022	Atlantic CommTech / Norfolk, VA	SS / CPFF	AFNWC	Apr 2022	Apr 2022	22	0.482	Y		Jan 2022
Disablement Management System (DMS) <sup>(†)</sup>		2022	Sandia National Labs (SNL) / Albuquerque, NM	MIPR	AFNWC	Jul 2022	Oct 2022	90	0.316	Y		
Disablement Management System (DMS) <sup>(†)</sup>		2023	Sandia National Labs (SNL) / Albuquerque, NM	MIPR	AFNWC	Nov 2022	Apr 2023	32	0.538	Y		
Secure Transportable Maintenance System (STMS) <sup>(†)</sup>		2022	Battelle / Albuquerque, NM	SS / CPFF	AFNWC	Apr 2022	Apr 2023	2	1.250	Y		Mar 2022

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Theater Nuclear Weapon Storage & Security System

Cost Elements (Units in Each)						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
Weapons Storage and Security Systems (WS3) Storage Life Extension Program (SLEP)																																	
	1	2021	AF	10	0	10																								0			
	1	2022	AF	22	0	22																						A22		0			
Disablement Management System (DMS)																																	
	2	2022	AF	90	0	90																								90			
	2	2023	AF	32	0	32																								32			
Secure Transportable Maintenance System (STMS)																																	
	3	2022	AF	2	0	2																								2			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7										<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure										<b>Item Number / Title [DODIC]:</b> Theater Nuclear Weapon Storage & Security System									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023														Fiscal Year 2024														BALANCE
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
Weapons Storage and Security Systems (WS3) Storage Life Extension Program (SLEP)																																			
	1	2021	AF	10	10	0																								0					
	1	2022	AF	22	22	0																								0					
Disablement Management System (DMS)																																			
	2	2022	AF	90	0	90	90																							0					
	2	2023	AF	32	0	32		A	-	-	-	-	-	-	32															0					
Secure Transportable Maintenance System (STMS)																																			
	3	2022	AF	2	0	2	-	-	-	-	-	-	-	2																0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Theater Nuclear Weapon Storage & Security System

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Atlantic CommTech - Norfolk, VA	1	1	100	0	0	0	0	1	7	0	7
2	Sandia National Labs (SNL) - Albuquerque, NM	1	1	100	0	0	0	0	1	2	5	7
3	Battelle - Albuquerque, NM	1	1	100	1	7	12	19	0	0	0	0

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

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

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Communications and Information Technology

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.412	0.000	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.412	0.000	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>5.412</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - Communications and Information Technology Cost</b>																		
Recurring Cost																		
AFSPC Communications Infrastructure Equipment	-	-	-	5.412	1	5.412	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.412	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - Communications and Information Technology Cost</i>	-	-	-	-	-	5.412	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	5.412	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	5.412	0.000	0.000	-	0.000
<b>Total: Secondary Distribution</b>	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	5.412	0.000	0.000	-	0.000

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> VC-25B

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	0.378	-	0.378
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	0.378	-	0.378
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.000</b>	<b>0.000</b>	<b>0.378</b>	-	<b>0.378</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - VC-25B Cost																		
Non Recurring Cost																		
Base Communication Infrastructure <sup>(†)</sup>	-	-	-	-	-	0.000	-	-	0.000	0.378	1	0.378	-	-	-	0.378	1	0.378
Subtotal: Non Recurring Cost	-	-	-	-	-	0.000	-	-	0.000	-	-	0.378	-	-	-	-	-	0.378
Subtotal: Hardware - VC-25B Cost	-	-	-	-	-	0.000	-	-	0.000	-	-	0.378	-	-	-	-	-	0.378
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.378</b>	-	-	-	-	-	<b>0.378</b>

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Total Obligation Authority	0.000	0.000	0.378	-	0.378
AFR	-	-	-	-	-
Total Obligation Authority	0.000	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>0.000</b>	<b>0.000</b>	<b>0.378</b>	-	<b>0.378</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> VC-25B
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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
Base Communication Infrastructure		2023	Various / Andrews AFB	Various	TBD	Sep 2023	Oct 2023	1	0.378	Y		Aug 2023

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Advanced Pilot Training System T-7A

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	0.700	-	0.700
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	0.700	-	0.700
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.000</b>	<b>0.000</b>	<b>0.700</b>	-	<b>0.700</b>

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

Initial Spares (\$ in Millions)	-	0.000	0.000	0.000	0.000	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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 Pilot Training System T-7A Cost																		
Recurring Cost																		
Data, voice and video Base Communication Infrastructure Equipment for AETC facilities <sup>(†)</sup>	-	-	-	-	-	0.000	-	-	0.000	0.700	1	0.700	-	-	-	0.700	1	0.700
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.700	-	-	-	-	-	0.700
<i>Subtotal: Hardware - Advanced Pilot Training System T-7A Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.700	-	-	-	-	-	0.700
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.700	-	-	-	-	-	0.700

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Total Obligation Authority	0.000	0.000	0.700	-	0.700
<b>Total: Secondary Distribution</b>	<b>0.000</b>	<b>0.000</b>	<b>0.700</b>	-	<b>0.700</b>

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure					<b>Item Number / Title [DODIC]:</b> Advanced Pilot Training System T-7A				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Data, voice and video Base Communication Infrastructure Equipment for AETC facilities		2023	TBD / TBD	TBD	Hanscom AFB	Jan 2023	May 2023	1	0.700	Y		Nov 2022

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> MQ-9 UAV

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	82.160	70.370	6.401	-	6.401
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	82.160	70.370	6.401	-	6.401
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>82.160</b>	<b>70.370</b>	<b>6.401</b>	-	<b>6.401</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - MQ-9 UAV Cost</b>																		
Non Recurring Cost																		
Equipment <sup>(†)</sup>	-	-	-	3.778	4	15.113	4.167	4	16.666	4.040	1	4.040	-	-	-	4.040	1	4.040
ACC Equipment <sup>(†)</sup>	-	-	-	10.105	5	50.523	8.901	5	44.507	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	65.636	-	-	61.173	-	-	4.040	-	-	-	-	-	4.040
<i>Subtotal: Hardware - MQ-9 UAV Cost</i>	-	-	-	-	-	<b>65.636</b>	-	-	<b>61.173</b>	-	-	<b>4.040</b>	-	-	-	-	-	<b>4.040</b>
<b>Software - MQ-9 UAV Cost</b>																		
Non Recurring Cost																		
Software buys <sup>(†)</sup>	-	-	-	2.373	4	9.493	0.608	4	2.431	1.000	1	1.000	-	-	-	1.000	1	1.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	9.493	-	-	2.431	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Software - MQ-9 UAV Cost</i>	-	-	-	-	-	<b>9.493</b>	-	-	<b>2.431</b>	-	-	<b>1.000</b>	-	-	-	-	-	<b>1.000</b>
<b>Support - MQ-9 UAV Cost</b>																		
PMA Other Government Costs	-	-	-	-	-	0.740	-	-	0.290	-	-	0.300	-	-	-	-	-	0.300
Installation Contract	-	-	-	-	-	6.291	-	-	6.476	-	-	1.061	-	-	-	-	-	1.061
<i>Subtotal: Support - MQ-9 UAV Cost</i>	-	-	-	-	-	<b>7.031</b>	-	-	<b>6.766</b>	-	-	<b>1.361</b>	-	-	-	-	-	<b>1.361</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>82.160</b>	-	-	<b>70.370</b>	-	-	<b>6.401</b>	-	-	-	-	-	<b>6.401</b>

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> MQ-9 UAV
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>					
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	82.160	70.370	6.401	-	6.401
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	82.160	70.370	6.401	-	6.401

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



**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> MQ-9 UAV
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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 <sup>(†)</sup>		2021	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Dec 2020	Jan 2021	4	3.778	Y		
Equipment <sup>(†)</sup>		2022	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Dec 2021	Jan 2022	4	4.167	Y		
Equipment <sup>(†)</sup>		2023	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Dec 2022	Jan 2023	1	4.040	Y		
ACC Equipment <sup>(†)</sup>		2021	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Jan 2021	Jan 2022	5	10.105	Y		
ACC Equipment <sup>(†)</sup>		2022	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Jan 2022	Jan 2023	5	8.901	Y		
Software buys <sup>(†)</sup>		2021	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Dec 2020	Jan 2021	4	2.373	Y		
Software buys <sup>(†)</sup>		2022	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Dec 2021	Jan 2022	4	0.608	Y		
Software buys <sup>(†)</sup>		2023	NTEK / VA	C / FFP	AFLCMC/WI - ISR & SOF	Dec 2022	Jan 2023	1	1.000	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> MQ-9 UAV
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
Equipment																																	
	1	2021	AF	4	0	4			A -	1	-	-	1	-	-	1	-	1												0			
	1	2022	AF	4	0	4														A -	1	-	-	1	-	-	1	-	1	0			
	1	2023	AF	1	0	1																								1			
ACC Equipment																																	
	2	2021	AF	5	0	5			A -	-	-	-	-	-	-	-	-	-	-											0			
	2	2022	AF	5	0	5														A -	-	-	-	-	-	-	-	-	-	5			
Software buys																																	
	3	2021	AF	4	0	4			A -	1	-	-	1	-	-	1	-	1												0			
	3	2022	AF	4	0	4														A -	1	-	-	1	-	-	1	-	1	0			
	3	2023	AF	1	0	1																								1			
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> MQ-9 UAV
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023														Fiscal Year 2024														BALANCE
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
<b>Equipment</b>																																			
	1	2021	AF	4	4	0																								0					
	1	2022	AF	4	4	0																								0					
	1	2023	AF	1	0	1																								0					
<b>ACC Equipment</b>																																			
	2	2021	AF	5	5	0																								0					
	2	2022	AF	5	0	5	-	-	-																					0					
<b>Software buys</b>																																			
	3	2021	AF	4	4	0																								0					
	3	2022	AF	4	4	0																								0					
	3	2023	AF	1	0	1																								0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> MQ-9 UAV

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	NTEK - VA			20	1	3	1	4	0	3	1	4
2	NTEK - VA			20	0	0	0	0	0	4	12	16
3	NTEK - VA			20	1	3	1	4	0	3	1	4

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - Tactical Air Forces

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.187	0.000	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.187	0.000	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.187</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Information Technology Services Management - Tactical Air Forces Cost																		
Recurring Cost																		
Base Communications Infrastructure Equipment for Tactical Air Forces <sup>(t)</sup>	-	-	-	0.187	1	0.187	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.187	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Information Technology Services Management - Tactical Air Forces Cost</i>	-	-	-	-	-	0.187	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.187	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
<b>Total:</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>0.187</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>

<sup>(t)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure				<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - Tactical Air Forces					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Base Communications Infrastructure Equipment for Tactical Air Forces		2021	Various / Various	Various	Hanscom AFB	Jan 2021	May 2021	1	0.187	Y		Oct 2020

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> EIT CONNECT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	16.289	16.407	27.914	-	27.914
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	16.289	16.407	27.914	-	27.914
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>16.289</b>	<b>16.407</b>	<b>27.914</b>	-	<b>27.914</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - EIT CONNECT Cost</b>																		
Recurring Cost																		
ACC Lead Command Base Communications Infrastructure upgrades <sup>(†)</sup>	-	-	-	1.253	13	16.289	1.262	13	16.407	2.147	13	27.914	-	-	-	2.147	13	27.914
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	16.289	-	-	16.407	-	-	27.914	-	-	-	-	-	27.914
<i>Subtotal: Hardware - EIT CONNECT Cost</i>	-	-	-	-	-	16.289	-	-	16.407	-	-	27.914	-	-	-	-	-	27.914
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	16.289	-	-	16.407	-	-	27.914	-	-	-	-	-	27.914

**Remarks:**

fund the install of Outside Plant, Inside Plant, Giant voice, LMR upgrades/replacement, NIPR/SIPR switches, ATCALs, Voice switching, integrated access devices, and wireless networks requirements for the Engineering Installations AF Work Plan

<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	16.289	16.407	27.914	-	27.914
<b>Total:</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>16.289</b>	<b>16.407</b>	<b>27.914</b>	-	<b>27.914</b>
Quantity	-	-	-	-	-
Total Obligation Authority	16.289	16.407	27.914	-	27.914

<sup>(†)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> EIT CONNECT
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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
ACC Lead Command Base Communications Infrastructure upgrades <sup>(†)</sup>		2021	Various / Various	Various	ACC	Jan 2021	Mar 2021	13	1.253	Y		Nov 2020
ACC Lead Command Base Communications Infrastructure upgrades <sup>(†)</sup>		2022	Various / Various	Various	ACC	Jan 2022	Mar 2022	13	1.262	Y		Nov 2021
ACC Lead Command Base Communications Infrastructure upgrades <sup>(†)</sup>		2023	Various / Various	Various	ACC	Jan 2023	Mar 2023	13	2.147	Y		Nov 2022

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> EIT CONNECT
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
ACC Lead Command Base Communications Infrastructure upgrades																															
1		2021	AF	13	0	13																							A - - 13		0
1		2022	AF	13	0	13																							A - - 13		0
1		2023	AF	13	0	13																									13
							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 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure **Item Number / Title [DODIC]:** EIT CONNECT

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
ACC Lead Command Base Communications Infrastructure upgrades																																	
	1	2021	AF	13	13	0																								0			
	1	2022	AF	13	13	0																								0			
	1	2023	AF	13	0	13																								0			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> EIT CONNECT
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various			20	0	0	0	0	0	0	4	2	6

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> EIT END USER DEVICES

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	79.640	40.705	22.087	-	22.087
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	79.640	40.705	22.087	-	22.087
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>79.640</b>	<b>40.705</b>	<b>22.087</b>	-	<b>22.087</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - EIT END USER DEVICES - ACC Cost																		
Recurring Cost																		
EIT Package - ACC <sup>(†)</sup>	-	-	-	11.378	1	11.378	5.815	1	5.815	3.155	1	3.155	-	-	-	3.155	1	3.155
Subtotal: Recurring Cost	-	-	-	-	-	11.378	-	-	5.815	-	-	3.155	-	-	-	-	-	3.155
Subtotal: Hardware - EIT END USER DEVICES - ACC Cost	-	-	-	-	-	<b>11.378</b>	-	-	<b>5.815</b>	-	-	<b>3.155</b>	-	-	-	-	-	<b>3.155</b>
Hardware - EIT END USER DEVICES - AETC Cost																		
Recurring Cost																		
EIT Package - AETC <sup>(†)</sup>	-	-	-	11.377	1	11.377	5.815	1	5.815	3.155	1	3.155	-	-	-	3.155	1	3.155
Subtotal: Recurring Cost	-	-	-	-	-	11.377	-	-	5.815	-	-	3.155	-	-	-	-	-	3.155
Subtotal: Hardware - EIT END USER DEVICES - AETC Cost	-	-	-	-	-	<b>11.377</b>	-	-	<b>5.815</b>	-	-	<b>3.155</b>	-	-	-	-	-	<b>3.155</b>
Hardware - EIT END USER DEVICES - AFDW Cost																		
Recurring Cost																		
EIT Package - AFDW <sup>(†)</sup>	-	-	-	11.377	1	11.377	5.815	1	5.815	3.155	1	3.155	-	-	-	3.155	1	3.155
Subtotal: Recurring Cost	-	-	-	-	-	11.377	-	-	5.815	-	-	3.155	-	-	-	-	-	3.155
Subtotal: Hardware - EIT END USER DEVICES - AFDW Cost	-	-	-	-	-	<b>11.377</b>	-	-	<b>5.815</b>	-	-	<b>3.155</b>	-	-	-	-	-	<b>3.155</b>
Hardware - EIT END USER DEVICES - AFMC Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure						<b>Item Number / Title [DODIC]:</b> EIT END USER DEVICES					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Recurring Cost</b>																		
EIT Package - AFMC <sup>(†)</sup>	-	-	-	11.377	1	11.377	5.815	1	5.815	3.155	1	3.155	-	-	-	3.155	1	3.155
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.155	-	-	-	-	-	3.155
<i>Subtotal: Hardware - EIT END USER DEVICES - AFMC Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.155	-	-	-	-	-	3.155
<b>Hardware - EIT END USER DEVICES - AFSOC Cost</b>																		
<b>Recurring Cost</b>																		
EIT Package - AFSOC <sup>(†)</sup>	-	-	-	11.377	1	11.377	5.815	1	5.815	3.155	1	3.155	-	-	-	3.155	1	3.155
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.155	-	-	-	-	-	3.155
<i>Subtotal: Hardware - EIT END USER DEVICES - AFSOC Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.155	-	-	-	-	-	3.155
<b>Hardware - EIT END USER DEVICES - PACAF Cost</b>																		
<b>Recurring Cost</b>																		
EIT Package - PACAF <sup>(†)</sup>	-	-	-	11.377	1	11.377	5.815	1	5.815	3.156	1	3.156	-	-	-	3.156	1	3.156
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.156	-	-	-	-	-	3.156
<i>Subtotal: Hardware - EIT END USER DEVICES - PACAF Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.156	-	-	-	-	-	3.156
<b>Hardware - EIT END USER DEVICES - USAFE Cost</b>																		
<b>Recurring Cost</b>																		
EIT Package - USAFE <sup>(†)</sup>	-	-	-	11.377	1	11.377	5.815	1	5.815	3.156	1	3.156	-	-	-	3.156	1	3.156
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.156	-	-	-	-	-	3.156
<i>Subtotal: Hardware - EIT END USER DEVICES - USAFE Cost</i>	-	-	-	-	-	11.377	-	-	5.815	-	-	3.156	-	-	-	-	-	3.156
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	79.640	-	-	40.705	-	-	22.087	-	-	-	-	-	22.087

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	79.640	40.705	22.087	-	22.087

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force				<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure		<b>Item Number / Title [DODIC]:</b> EIT END USER DEVICES		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	79.640	40.705	22.087	-	22.087

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> EIT END USER DEVICES
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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
EIT Package - ACC <sup>(†)</sup>		2021	Multiple / Multiple	Various	TBD	Jan 2021	Jan 2021	1	11.378	Y		Nov 2020
EIT Package - ACC <sup>(†)</sup>		2022	Multiple / Multiple	Various	TBD	Jan 2022	Jan 2022	1	5.815	Y		Nov 2021
EIT Package - ACC <sup>(†)</sup>		2023	Multiple / Multiple	TBD	TBD	Sep 2022	Sep 2022	1	3.155	Y		Aug 2022
EIT Package - AETC <sup>(†)</sup>		2021	Multiple / Multiple	Various	N/A	Jan 2021	Jan 2022	1	11.377	Y		Nov 2020
EIT Package - AETC <sup>(†)</sup>		2022	Multiple / Multiple	Various	N/A	Jan 2022	Jan 2022	1	5.815	Y		Dec 2021
EIT Package - AETC <sup>(†)</sup>		2023	Multiple / Multiple	TBD	TBD	Sep 2022	Sep 2022	1	3.155	Y		Aug 2022
EIT Package - AFDW <sup>(†)</sup>		2021	Workd Wide Technology, LLC; CDO Technologies, INC (SETA);Leidos / JBAB	Various	AFLCMC Hanscom AFB	Sep 2021	Sep 2021	1	11.377	Y		Aug 2020
EIT Package - AFDW <sup>(†)</sup>		2022	Workd Wide Technology, LLC & Leidos / JBAB & JBA	Various	AFLCMC Hanscom AFB	Sep 2021	Sep 2021	1	5.815	Y		Aug 2021
EIT Package - AFDW <sup>(†)</sup>		2023	Leidos / JBA	TBD	AFDW	Sep 2022	Sep 2022	1	3.155	Y		Aug 2022
EIT Package - AFMC <sup>(†)</sup>		2021	World Wide Technology / Multiple	Reqn	WPAFB, OH	Jan 2021	Jan 2021	1	11.377	Y		
EIT Package - AFMC <sup>(†)</sup>		2022	World Wide Technology / Multiple	Reqn	WPAFB, OH	Jan 2022	Jan 2022	1	5.815	Y		
EIT Package - AFMC <sup>(†)</sup>		2023	TBD / Multiple	Reqn	Eglin AFB	Sep 2022	Sep 2022	1	3.155	Y		
EIT Package - AFSOC <sup>(†)</sup>		2021	Multiple / Multiple	Various	N/A	Jan 2021	Jan 2021	1	11.377	Y		
EIT Package - AFSOC <sup>(†)</sup>		2022	Multiple / Multiple	Various	N/A	Mar 2022	Mar 2022	1	5.815	Y		
EIT Package - AFSOC <sup>(†)</sup>		2023	Multiple / Multiple	TBD	TBD	Sep 2022	Sep 2022	1	3.155	Y		
EIT Package - PACAF <sup>(†)</sup>		2021	DITC / PACAF/INDOPACOM	MIPR	PACAF	Aug 2021	Aug 2021	1	11.377	Y		
EIT Package - PACAF <sup>(†)</sup>		2022	TBD / PACAF/INDOPACOM	MIPR	PACAF	Mar 2022	Mar 2022	1	5.815	Y		
EIT Package - PACAF <sup>(†)</sup>		2023	TBD / PACAF/INDOPACOM	MIPR	PACAF	Sep 2022	Sep 2022	1	3.156	Y		
EIT Package - USAFE <sup>(†)</sup>		2021	TBD / AFRICA	PO	USAFE	May 2022	May 2022	1	11.377	Y		
EIT Package - USAFE <sup>(†)</sup>		2022	TBD / AFRICA	Various	USAFE	Sep 2022	Sep 2022	1	5.815	Y		
EIT Package - USAFE <sup>(†)</sup>		2023	TBD / AFRICA	Various	USAFE	Jul 2023	Jul 2023	1	3.156	Y		

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

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> EIT END USER DEVICES
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021																Fiscal Year 2022												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021																Calendar Year 2022												
							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					
EIT Package - ACC																																			
	1	2021	AF	1	0	1																								0					
	1	2022	AF	1	0	1																								0					
	1	2023	AF	1	0	1																								0					
EIT Package - AETC																																			
	2	2021	AF	1	0	1																								0					
	2	2022	AF	1	0	1																								0					
	2	2023	AF	1	0	1																								0					
EIT Package - AFDW																																			
	3	2021	AF	1	0	1																								0					
	4	2022	AF	1	0	1																								0					
	5	2023	AF	1	0	1																								0					
EIT Package - AFMC																																			
	6	2021	AF	1	0	1																								0					
	6	2022	AF	1	0	1																								0					
	7	2023	AF	1	0	1																								0					
EIT Package - AFSOC																																			
	8	2021	AF	1	0	1																								0					
	8	2022	AF	1	0	1																								0					
	8	2023	AF	1	0	1																								0					
EIT Package - PACAF																																			
	9	2021	AF	1	0	1																								0					
	10	2022	AF	1	0	1																								0					
	10	2023	AF	1	0	1																								0					
EIT Package - USAFE																																			
	11	2021	AF	1	0	1																								0					
	11	2022	AF	1	0	1																								0					
	11	2023	AF	1	0	1																								0					
																														1					



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Exhibit P-21, Production Schedule: PB 2023 Air Force																Date: April 2021									
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure										Item Number / Title [DODIC]: EIT END USER DEVICES									

Cost Elements (Units in Each)						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
OC	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
EIT Package - ACC																																	
	1	2021	AF	1	1	0																									0		
	1	2022	AF	1	1	0																									0		
	1	2023	AF	1	1	0																									0		
EIT Package - AETC																																	
	2	2021	AF	1	1	0																									0		
	2	2022	AF	1	1	0																									0		
	2	2023	AF	1	1	0																									0		
EIT Package - AFDW																																	
	3	2021	AF	1	1	0																									0		
	4	2022	AF	1	1	0																									0		
	5	2023	AF	1	1	0																									0		
EIT Package - AFMC																																	
	6	2021	AF	1	1	0																									0		
	6	2022	AF	1	1	0																									0		
	7	2023	AF	1	1	0																									0		
EIT Package - AFSOC																																	
	8	2021	AF	1	1	0																									0		
	8	2022	AF	1	1	0																									0		
	8	2023	AF	1	1	0																									0		
EIT Package - PACAF																																	
	9	2021	AF	1	1	0																									0		
	10	2022	AF	1	1	0																									0		
	10	2023	AF	1	1	0																									0		
EIT Package - USAFE																																	
	11	2021	AF	1	1	0																									0		
	11	2022	AF	1	1	0																									0		
	11	2023	AF	1	0	1											A1														0		

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> EIT END USER DEVICES

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Multiple - Multiple	1	1	20	0	0	0	0	0	1	0	0	0
2	Multiple - Multiple	1	1	20	0	0	0	0	0	1	0	0	0
3	Workd Wide Technology, LLC; CDO Technologies, INC (SETA);Leidos - JBAB				0	0	0	0	0	0	0	0	0
4	Workd Wide Technology, LLC & Leidos - JBAB & JBA				0	0	0	0	0	0	0	0	0
5	Leidos - JBA	1	1	20	0	0	0	0	0	1	0	0	0
6	World Wide Technology - Multiple				0	0	0	0	0	0	0	0	0
7	TBD - Multiple	1	1	20	0	0	0	0	0	1	0	0	0
8	Multiple - Multiple	1	1	20	0	0	0	0	0	1	0	0	0
9	DITC - PACAF/INDOPACOM				0	0	0	0	0	0	0	0	0
10	TBD - PACAF/INDOPACOM	1	1	20	0	0	0	0	0	1	0	0	0
11	TBD - AFRICA	1	1	20	0	0	0	0	0	1	10	0	10

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - AFR

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.352	0.353	0.339	-	0.339
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.352	0.353	0.339	-	0.339
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.352</b>	<b>0.353</b>	<b>0.339</b>	-	<b>0.339</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Information Technology Services Management - AFR Cost																		
Recurring Cost																		
ITSM - AFR <sup>(†)</sup>	-	-	-	0.352	1	0.352	0.353	1	0.353	0.339	1	0.339	-	-	-	0.339	1	0.339
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.352	-	-	0.353	-	-	0.339	-	-	-	-	-	0.339
<i>Subtotal: Hardware - Information Technology Services Management - AFR Cost</i>	-	-	-	-	-	<b>0.352</b>	-	-	<b>0.353</b>	-	-	<b>0.339</b>	-	-	-	-	-	<b>0.339</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>0.352</b>	-	-	<b>0.353</b>	-	-	<b>0.339</b>	-	-	-	-	-	<b>0.339</b>

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	0.000	0.000	0.000	-	0.000
AFR	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	0.352	0.353	0.339	-	0.339
<b>Total: Secondary Distribution</b>	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	<b>0.352</b>	<b>0.353</b>	<b>0.339</b>	-	<b>0.339</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure				<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - AFR				

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
ITSM - AFR <sup>(t)</sup>		2021	TBD / TBD	MIPR	AFRC	Jun 2022	Aug 2022	1	0.352	Y		May 2022
ITSM - AFR <sup>(t)</sup>		2022	TBD / TBD	MIPR	AFRC	Aug 2022	Oct 2022	1	0.353	Y		Jun 2022
ITSM - AFR <sup>(t)</sup>		2023	TBD / TBD	MIPR	AFRC	Mar 2023	Jun 2023	1	0.339	Y		Jan 2023

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

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - AFR

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2022														Fiscal Year 2023										BALANCE				
O C C #	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					
ITSM - AFR																																			
	1	2021	AF	1	0	1															A	-	-	1											0
	1	2022	AF	1	0	1															A	-	-	1											0
	1	2023	AF	1	0	1															A - - -			1											0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - AFR

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD			50	0	0	0	0	0	0	6	3	9

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - ANG

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	9.675	9.337	16.285	-	16.285
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	9.675	9.337	16.285	-	16.285
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>9.675</b>	<b>9.337</b>	<b>16.285</b>	-	<b>16.285</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Information Technology Services Management - ANG Cost																		
Recurring Cost																		
Installation Notification Warning System (INWS) <sup>(†)</sup>	-	-	-	-	-	0.000	0.488	15	7.326	0.570	16	9.120	-	-	-	0.570	16	9.120
Voice Switching Systems (VSS) <sup>(†)</sup>	-	-	-	0.403	24	9.675	0.503	4	2.011	0.512	14	7.165	-	-	-	0.512	14	7.165
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	9.675	-	-	9.337	-	-	16.285	-	-	-	-	-	16.285
<i>Subtotal: Hardware - Information Technology Services Management - ANG Cost</i>	-	-	-	-	-	9.675	-	-	9.337	-	-	16.285	-	-	-	-	-	16.285
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>9.675</b>	-	-	<b>9.337</b>	-	-	<b>16.285</b>	-	-	-	-	-	<b>16.285</b>

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	-	0.000
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	9.675	9.337	16.285	-	16.285
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force				<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure		<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - ANG		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	9.675	9.337	16.285	-	16.285

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



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure				<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - ANG					

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
Installation Notification Warning System (INWS) <sup>(†)</sup>		2022	Technica / 22970 Indian Creek Dr. STE 500 Sterling VA 20166	MIPR	ARMY/ACC	Sep 2021	Sep 2022	15	0.488	Y		Apr 2021
Installation Notification Warning System (INWS) <sup>(†)</sup>		2023	Technica / 22970 Indian Creek Dr. STE 500 Sterling VA 20166	MIPR	ARMY/ACC	Sep 2022	Sep 2023	16	0.570	Y		Apr 2022
Voice Switching Systems (VSS) <sup>(†)</sup>		2021	Zivaro Inc / 990 S BDWY STE 300 Denver CO 80209	MIPR	ARMY/ACC	Sep 2021	Sep 2022	24	0.403	Y		Apr 2021
Voice Switching Systems (VSS) <sup>(†)</sup>		2022	Zivaro / 990 S BDWY STE 300 Denver CO 80209	MIPR	ARMY/ACC	Nov 2021	Sep 2022	4	0.503	Y		Oct 2021
Voice Switching Systems (VSS) <sup>(†)</sup>		2023	Zivaro / 990 S BDWY STE 300 Denver CO 80209	MIPR	ARMY/ACC	Nov 2022	Sep 2023	14	0.512	Y		Oct 2022

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



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - ANG

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
Installation Notification Warning System (INWS)																															
	1	2022	AF	15	15	0																							0		
	1	2023	AF	16	0	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
Voice Switching Systems (VSS)																															
	2	2021	AF	24	24	0																						0			
	3	2022	AF	4	4	0																						0			
	3	2023	AF	14	0	14		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
		<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - ANG

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Technica - 22970 Indian Creek Dr. STE 500 Sterling VA 20166			50	0	0	12	12	0	0	0	0
2	Zivaro Inc - 990 S BDWY STE 300 Denver CO 80209				0	0	0	0	0	0	0	0
3	Zivaro - 990 S BDWY STE 300 Denver CO 80209			50	0	0	0	0	0	2	10	12

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Item Number / Title [DODIC]:</b> Information Technology Services Management - Logistics

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.001	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.001	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.000</b>	<b>0.001</b>	<b>0.000</b>	-	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Information Technology Services Management - Logistics Cost																		
Recurring Cost																		
Information Technology Services Management - Logistics	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Information Technology Services Management - Logistics Cost</i>	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.001	-	-	0.000	-	-	-	-	-	0.000

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	-	0.001	-	-	-
<b>Total: Secondary Distribution</b>	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	0.000	0.001	0.000	-	0.000

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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): **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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	8.136	20.609	18.607	167.419	-	167.419	59.817	109.134	109.996	5.415	-	499.133
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	8.136	20.609	18.607	167.419	-	167.419	59.817	109.134	109.996	5.415	-	499.133
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>8.136</b>	<b>20.609</b>	<b>18.607</b>	<b>167.419</b>	-	<b>167.419</b>	<b>59.817</b>	<b>109.134</b>	<b>109.996</b>	<b>5.415</b>	-	<b>499.133</b>

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

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

**Description:**

PE 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 from Production to the Operations and Support phase in FY17. Since then, NAS has been "totally" focused on sustainment efforts. NAS low cost modifications are initiated to resolve DMS issues and 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. Supporting activities include, but are not limited to, obsolescence scans, DMS/Material Shortage studies/resolution, Technical Support Services (TSS) which includes Engineering Support, Site Specific Issue Resolution, Trouble Reports, Investigation Requests, and the Product Support Library.

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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications		<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305114F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 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.</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force	<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods

<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305114F
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	North Warning System (NWS)	P-5a, P-21	B		- / -	- / 7.129	- / 6.424	- / 163.249	- / -	- / 163.249
P-3a	1 / ATCALs Low Cost Mods (PE 0305114F) (Reliability & Maintainability)		A		- / 1.858	- / 1.882	- / 1.890	- / 1.817	- / 0.000	- / 1.817
P-3a	1 / NAS Low Cost Mods (Reliability & Maintainability)		A		- / 1.854	- / 1.892	- / 1.850	- / 1.777	- / 0.000	- / 1.777
P-3a	3 / National Airspace System (NAS) Mod 4 (Reliability & Maintainability)		A		- / -	- / 1.776	- / 0.598	- / 0.576	- / 0.000	- / 0.576
P-5	Tactical Data Networks Enterprise		A		- / -	- / 7.930	- / 7.845	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 8.136</b>	<b>- / 20.609</b>	<b>- / 18.607</b>	<b>- / 167.419</b>	<b>- / -</b>	<b>- / 167.419</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	North Warning System (NWS)	P-5a, P-21	B		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / ATCALs Low Cost Mods (PE 0305114F) (Reliability & Maintainability)		A		- / 1.877	- / 2.030	- / 2.088	- / 2.130	- / -	- / 15.572
P-3a	1 / NAS Low Cost Mods (Reliability & Maintainability)		A		- / 1.834	- / 1.986	- / 2.043	- / 2.083	- / -	- / 15.319
P-3a	3 / National Airspace System (NAS) Mod 4 (Reliability & Maintainability)		A		- / 0.594	- / 0.641	- / 0.659	- / 0.673	- / -	- / 5.517
P-5	Tactical Data Networks Enterprise		A		- / -	- / -	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 59.817</b>	<b>- / 109.134</b>	<b>- / 109.996</b>	<b>- / 5.415</b>	<b>- / -</b>	<b>- / 499.133</b>

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

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

**Justification:**  
 This program, PE 0102412F CEM P-5, is a new start.

PE 0102412F North Warning Systems POR - P-40A Talon Archer  
 FY23 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  
 FY23 funds continue ATCALs low cost modifications

PE 0305137F National Airspace System (NAS) - P-40A Low Cost Mods/NAS Mods  
 FY23 funding continues NAS Low Cost Modifications as prioritized by the WSR-EC (NAS Mod 2) and mitigation of diminishing manufacturing sources (NAS Mod 4).

PE 0604281F Tactical Data Networks Enterprise - P-40A  
 FY23 no funding requested.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications		<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305114F
<b>Line Item MDAP/MAIS Code:</b> N/A		

Efforts with funding starting in FY 2024 through FY 2027 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:

- (a) FY 2024 Cost Delta: 55.512 million
- (b) FY 2025 Cost Delta: 104.477 million
- (c) FY 2026 Cost Delta: 105.206 million
- (d) FY 2027 Cost Delta: 0.529 million
- (e) FY Total Cost Delta: 458.301 million

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Item Number / Title [DODIC]:</b> North Warning System (NWS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	7.129	6.424	163.249	-	163.249
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	7.129	6.424	163.249	-	163.249
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>7.129</b>	<b>6.424</b>	<b>163.249</b>	-	<b>163.249</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - North Warning System (NWS) Cost																		
Recurring Cost																		
TALON ARCHER	-	-	-	3.565	2	7.129	3.212	2	6.424	0.494	1	0.494	-	-	-	0.494	1	0.494
HLD Site System Hardware <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	54.252	3	162.755	-	-	-	54.252	3	162.755
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	7.129	-	-	6.424	-	-	163.249	-	-	-	-	-	163.249
<i>Subtotal: Hardware - North Warning System (NWS) Cost</i>	-	-	-	-	-	7.129	-	-	6.424	-	-	163.249	-	-	-	-	-	163.249
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	7.129	-	-	6.424	-	-	163.249	-	-	-	-	-	163.249

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Item Number / Title [DODIC]:</b> North Warning System (NWS)
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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
HLD Site System Hardware <sup>(†)</sup>		2023	TBD / TBD	TBD	AFLCMC/HB - Battle Management	Sep 2023	Sep 2024	3	54.252	N	Sep 2022	May 2023

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



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Item Number / Title [DODIC]:</b> North Warning System (NWS)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							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
HLD Site System Hardware																															
	1	2023	AF	3	1	2	-	-	-	-	-	-	1	-	-	-	-	-	1											0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Item Number / Title [DODIC]:</b> North Warning System (NWS)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD	1	1	3	1	12	12	24	0	0	0	0

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

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

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Modification Number / Title:</b> 1 / ATCALs Low Cost Mods (PE 0305114F)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.858	1.882	1.890	1.817	0.000	1.817	1.877	2.030	2.088	2.130	-	15.572
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1.858	1.882	1.890	1.817	0.000	1.817	1.877	2.030	2.088	2.130	-	15.572
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.858</b>	<b>1.882</b>	<b>1.890</b>	<b>1.817</b>	<b>0.000</b>	<b>1.817</b>	<b>1.877</b>	<b>2.030</b>	<b>2.088</b>	<b>2.130</b>	-	<b>15.572</b>

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

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

**Description:**

Fixed base and deployable Air Traffic Control and Landing System (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.

**JUSTIFICATION:**

FY23 funds continue ATCALs low cost modifications as prioritized by the WSR-EC.

**Milestone/Development Status**

No development required. Low cost modifications are based on commercial off-the-shelf technology. Efforts generally include a first article for kit proofing.



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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>											<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8				<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods				<b>Modification Number / Title:</b> 1 / ATCALs Low Cost Mods (PE 0305114F)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> ATCALs			<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b>						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> ATCALs Low Cost Mods													
B Kits													
Recurring													
ATCALs Low Cost Mods:EQUIPMENT Group B (Active)	1 / 1.680	1 / 1.699	1 / 1.708	1 / 1.634	- / -	1 / 1.634	1 / 1.694	1 / 1.847	1 / 1.905	1 / 1.947	- / -	8 / 14.114	
<i>Subtotal: Recurring</i>	- / 1.680	- / 1.699	- / 1.708	- / 1.634	- / -	- / 1.634	- / 1.694	- / 1.847	- / 1.905	- / 1.947	- / -	- / 14.114	
<i>Subtotal: ATCALs Low Cost Mods</i>	- / 1.680	- / 1.699	- / 1.708	- / 1.634	- / -	- / 1.634	- / 1.694	- / 1.847	- / 1.905	- / 1.947	- / -	- / 14.114	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.680	- / 1.699	- / 1.708	- / 1.634	- / -	- / 1.634	- / 1.694	- / 1.847	- / 1.905	- / 1.947	- / -	- / 14.114	
<b>Support (All Modification Items)</b>													
PMA - Other Gov't Costs	- / 0.110	- / 0.115	- / 0.113	- / 0.114	- / -	- / 0.114	- / 0.114	- / 0.114	- / 0.114	- / 0.114	- / -	- / 0.908	
<i>Subtotal: Support</i>	- / 0.110	- / 0.115	- / 0.113	- / 0.114	- / -	- / 0.114	- / 0.114	- / 0.114	- / 0.114	- / 0.114	- / -	- / 0.908	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> ATCALs Low Cost Mods	1 / 0.068	1 / 0.068	1 / 0.069	1 / 0.069	- / -	1 / 0.069	1 / 0.069	1 / 0.069	1 / 0.069	1 / 0.069	- / -	8 / 0.550	
<i>Subtotal: Installation</i>	1 / 0.068	1 / 0.068	1 / 0.069	1 / 0.069	- / -	1 / 0.069	1 / 0.069	1 / 0.069	1 / 0.069	1 / 0.069	- / -	8 / 0.550	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>1.858</b>	<b>1.882</b>	<b>1.890</b>	<b>1.817</b>	<b>0.000</b>	<b>1.817</b>	<b>1.877</b>	<b>2.030</b>	<b>2.088</b>	<b>2.130</b>	<b>-</b>	<b>15.572</b>	

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Modification Number / Title:</b> 1 / ATCALs Low Cost Mods (PE 0305114F)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** ATCALs Low Cost Mods

**Manufacturer Information**

Manufacturer Name: Various	Manufacturer Location: Tinker AFB
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027
Delivery Dates	Jul 2021	Jul 2022	Jul 2023	Jul 2024	Jul 2025	Jul 2026	Jul 2027

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.068
FY 2021	- / -	1 / 0.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.068
FY 2022	- / -	- / -	1 / 0.069	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.069
FY 2023	- / -	- / -	- / -	1 / 0.069	- / -	1 / 0.069	- / -	- / -	- / -	- / -	- / -	1 / 0.069
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.069	- / -	- / -	- / -	- / -	1 / 0.069
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.069	- / -	- / -	- / -	1 / 0.069
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.069	- / -	- / -	1 / 0.069
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.069	- / -	1 / 0.069
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.068	1 / 0.068	1 / 0.069	1 / 0.069	- / -	1 / 0.069	1 / 0.069	1 / 0.069	1 / 0.069	1 / 0.069	- / -	8 / 0.550

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
In	1	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	0	8
Out	1	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	0	8

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Modification Number / Title:</b> 1 / NAS Low Cost Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1.854	1.892	1.850	1.777	0.000	1.777	1.834	1.986	2.043	2.083	-	15.319
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1.854	1.892	1.850	1.777	0.000	1.777	1.834	1.986	2.043	2.083	-	15.319
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>1.854</b>	<b>1.892</b>	<b>1.850</b>	<b>1.777</b>	<b>0.000</b>	<b>1.777</b>	<b>1.834</b>	<b>1.986</b>	<b>2.043</b>	<b>2.083</b>	<b>-</b>	<b>15.319</b>

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

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

**Description:**

The National Airspace System (NAS) system configuration is centrally maintained and certified by the Federal Aviation Administration (FAA) which has system engineering responsibility for the NAS. NAS low cost modifications are initiated to resolve diminishing manufacturing source (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, Material Improvement initiatives and fully coordinated with the FAA as centrally managed items. 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.

**Justification:**

FY23: Funds continue low cost modifications as prioritized by the NAS WSR-EC.

**Milestone/Development Status**

No development required. Low cost modifications are based on commercial off-the-shelf technology. Efforts generally include a first article for kit proofing.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>											<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8				<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods				<b>Modification Number / Title:</b> 1 / NAS Low Cost Mods					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> NAS				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b> 0305114F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> Low Cost Mod Kits													
B Kits													
Recurring													
Low Cost Mod Kits:EQUIPMENT Group B (Active)	1 / 1.486	1 / 1.519	1 / 1.471	1 / 1.392	- / -	1 / 1.392	1 / 1.442	1 / 1.586	1 / 1.635	1 / 1.667	- / -	8 / 12.198	
<i>Subtotal: Recurring</i>	- / 1.486	- / 1.519	- / 1.471	- / 1.392	- / -	- / 1.392	- / 1.442	- / 1.586	- / 1.635	- / 1.667	- / -	- / 12.198	
<i>Subtotal: Low Cost Mod Kits</i>	- / 1.486	- / 1.519	- / 1.471	- / 1.392	- / -	- / 1.392	- / 1.442	- / 1.586	- / 1.635	- / 1.667	- / -	- / 12.198	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.486	- / 1.519	- / 1.471	- / 1.392	- / -	- / 1.392	- / 1.442	- / 1.586	- / 1.635	- / 1.667	- / -	- / 12.198	
<b>Support (All Modification Items)</b>													
PMA - Other Gov't Costs	- / 0.183	- / 0.184	- / 0.192	- / 0.196	- / -	- / 0.196	- / 0.194	- / 0.196	- / 0.197	- / 0.198	- / -	- / 1.540	
<i>Subtotal: Support</i>	- / 0.183	- / 0.184	- / 0.192	- / 0.196	- / -	- / 0.196	- / 0.194	- / 0.196	- / 0.197	- / 0.198	- / -	- / 1.540	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> Low Cost Mod Kits	1 / 0.185	1 / 0.189	1 / 0.187	1 / 0.189	- / -	1 / 0.189	1 / 0.198	1 / 0.204	1 / 0.211	1 / 0.218	- / -	8 / 1.581	
<i>Subtotal: Installation</i>	1 / 0.185	1 / 0.189	1 / 0.187	1 / 0.189	- / -	1 / 0.189	1 / 0.198	1 / 0.204	1 / 0.211	1 / 0.218	- / -	8 / 1.581	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>1.854</b>	<b>1.892</b>	<b>1.850</b>	<b>1.777</b>	<b>0.000</b>	<b>1.777</b>	<b>1.834</b>	<b>1.986</b>	<b>2.043</b>	<b>2.083</b>	<b>-</b>	<b>15.319</b>	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>											<b>Date: April 2021</b>																				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8						<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods						<b>Modification Number / Title:</b> 1 / NAS Low Cost Mods																			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A											<b>MDAP/MAIS Code:</b>																				
<b>Modification Item 1 of 1: Low Cost Mod Kits</b>																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Various											Manufacturer Location: Tinker AFB, OK																				
Administrative Leadtime (in Months): 3											Production Leadtime (in Months): 6																				
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>																								
Contract Dates	Jan 2021	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027																								
Delivery Dates	Jul 2021	Jul 2022	Jul 2023	Jul 2024	Jul 2025	Jul 2026	Jul 2027																								
<b>Installation Information</b>																															
<b>Method of Implementation: Contract Field Team</b>																															
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																
Prior Years	1 / 0.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.185																		
FY 2021	- / -	1 / 0.189	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.189																		
FY 2022	- / -	- / -	1 / 0.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.187																		
FY 2023	- / -	- / -	- / -	1 / 0.189	- / -	1 / 0.189	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.189																		
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.198	- / -	- / -	- / -	- / -	- / -	1 / 0.198																		
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.204	- / -	- / -	- / -	- / -	1 / 0.204																		
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.211	- / -	- / -	- / -	1 / 0.211																		
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.218	- / -	- / -	1 / 0.218																		
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total	1 / 0.185	1 / 0.189	1 / 0.187	1 / 0.189	- / -	1 / 0.189	1 / 0.198	1 / 0.204	1 / 0.211	1 / 0.218	- / -	8 / 1.581																			
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2021</b>				<b>FY 2022</b>				<b>FY 2023</b>				<b>FY 2024</b>				<b>FY 2025</b>				<b>FY 2026</b>				<b>FY 2027</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	0	8
Out	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	0	8

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Modification Number / Title:</b> 3 / National Airspace System (NAS) Mod 4

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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	1.776	0.598	0.576	0.000	0.576	0.594	0.641	0.659	0.673	-	5.517
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1.776	0.598	0.576	0.000	0.576	0.594	0.641	0.659	0.673	-	5.517
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>1.776</b>	<b>0.598</b>	<b>0.576</b>	<b>0.000</b>	<b>0.576</b>	<b>0.594</b>	<b>0.641</b>	<b>0.659</b>	<b>0.673</b>	-	<b>5.517</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

National Airspace System (NAS) Com Elec Mods #838010 / PE 35137F - Mod 04 - The NAS program is a joint DoD/FAA program which entered the operations and support phase in 2017. The FAA is the overall lead for the NAS program and the Air Force is the lead for the DoD. Full rate production deliveries began in 2005, and the last planned delivery / install is in 3Q FY22. Program focus is now on mitigation of Diminishing Manufacturing Source (DMS) issues and implementation of system upgrades required to maintain standard configuration across the DoD and FAA. This allows the DoD to maintain a common baseline with the FAA and save support costs for a separate DoD baseline. NAS systems include the Digital Airport Surveillance Radar and the DoD Advanced Automation System also known as the Standard Terminal Automation System.

**Justification:**

FY23 funds will be used for mitigation of Diminishing Manufacturing Sources (NAS Mod 4).

**Milestone/Development Status**

System in sustainment phase

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>											<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8				<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods				<b>Modification Number / Title:</b> 3 / National Airspace System (NAS) Mod 4					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> NAS				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> NAS Mod Kit													
B Kits													
Recurring													
NAS Mod Kit:EQUIPMENT Group B (Active)	- / -	1 / 1.561	1 / 0.403	1 / 0.381	- / -	1 / 0.381	1 / 0.399	1 / 0.446	1 / 0.464	1 / 0.478	- / -	7 / 4.132	
<i>Subtotal: Recurring</i>	- / -	- / 1.561	- / 0.403	- / 0.381	- / -	- / 0.381	- / 0.399	- / 0.446	- / 0.464	- / 0.478	- / -	- / 4.132	
<i>Subtotal: NAS Mod Kit</i>	- / -	- / 1.561	- / 0.403	- / 0.381	- / -	- / 0.381	- / 0.399	- / 0.446	- / 0.464	- / 0.478	- / -	- / 4.132	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 1.561	- / 0.403	- / 0.381	- / -	- / 0.381	- / 0.399	- / 0.446	- / 0.464	- / 0.478	- / -	- / 4.132	
<b>Support (All Modification Items)</b>													
PMA - Other Gov't Costs	- / -	- / 0.140	- / 0.120	- / 0.120	- / -	- / 0.120	- / 0.120	- / 0.120	- / 0.120	- / 0.120	- / -	- / 0.860	
<i>Subtotal: Support</i>	- / -	- / 0.140	- / 0.120	- / 0.120	- / -	- / 0.120	- / 0.120	- / 0.120	- / 0.120	- / 0.120	- / -	- / 0.860	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> NAS Mod Kit	- / -	1 / 0.075	1 / 0.075	1 / 0.075	- / -	1 / 0.075	1 / 0.075	1 / 0.075	1 / 0.075	1 / 0.075	- / -	7 / 0.525	
<i>Subtotal: Installation</i>	- / -	1 / 0.075	1 / 0.075	1 / 0.075	- / -	1 / 0.075	1 / 0.075	1 / 0.075	1 / 0.075	1 / 0.075	- / -	7 / 0.525	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	1.776	0.598	0.576	0.000	0.576	0.594	0.641	0.659	0.673	-	5.517	

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Modification Number / Title:</b> 3 / National Airspace System (NAS) Mod 4

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** NAS Mod Kit

**Manufacturer Information**

Manufacturer Name: Raytheon	Manufacturer Location: Marlboro, MA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 5

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027
Delivery Dates	Jun 2021	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	Jun 2027

**Installation Information**

**Method of Implementation:** Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2021	- / -	1 / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.075
FY 2022	- / -	- / -	1 / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.075
FY 2023	- / -	- / -	- / -	1 / 0.075	- / -	1 / 0.075	- / -	- / -	- / -	- / -	- / -	1 / 0.075
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.075	- / -	- / -	- / -	- / -	1 / 0.075
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.075	- / -	- / -	- / -	1 / 0.075
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.075	0 / 0.075	- / -	1 / 0.150
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	- / -	1 / 0.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 0.075	1 / 0.075	1 / 0.075	- / -	1 / 0.075	1 / 0.075	1 / 0.075	1 / 0.075	1 / 0.075	- / -	7 / 0.525

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	0	7
Out	0	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	0	7



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8						<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods						<b>Item Number / Title [DODIC]:</b> Tactical Data Networks Enterprise						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	
Procurement Quantity ( <i>Units in Each</i> )				-		-			-			-			-		-	
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-		7.930			7.845			0.000			-		0.000	
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-		-			-			-			-		-	
Net Procurement (P-1) ( <i>\$ in Millions</i> )				-		7.930			7.845			0.000			-		0.000	
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-		-			-			-			-		-	
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				-		<b>7.930</b>			<b>7.845</b>			<b>0.000</b>			-		<b>0.000</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares ( <i>\$ in Millions</i> )				-		-			-			-			-		-	
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )				-		-			-			-			-		-	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$ M)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Software - Tactical Data Link Planning Analysis and Monitoring Tool Cost																		
Non Recurring Cost																		
64281F	-	-	-	0.272	27	7.349	0.211	33	6.964	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	7.349	-	-	6.964	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - Tactical Data Link Planning Analysis and Monitoring Tool Cost</i>	-	-	-	-	-	7.349	-	-	6.964	-	-	-	-	-	-	-	-	-
Support - Program Support Costs Cost																		
64281F	-	-	-	-	-	0.581	-	-	0.881	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Program Support Costs Cost</i>	-	-	-	-	-	0.581	-	-	0.881	-	-	0.000	-	-	-	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	7.930	-	-	7.845	-	-	0.000	-	-	-	-	-	0.000

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	53.589	69.787	92.995	-	92.995	100.156	97.498	85.104	96.059	-	595.188
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	53.589	69.787	92.995	-	92.995	100.156	97.498	85.104	96.059	-	595.188
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>53.589</b>	<b>69.787</b>	<b>92.995</b>	-	<b>92.995</b>	<b>100.156</b>	<b>97.498</b>	<b>85.104</b>	<b>96.059</b>	-	<b>595.188</b>

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

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

**Description:**

This program provides a wide variety of base support and safety of flight items for warfighters with worldwide application 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. 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). 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 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip		<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<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 &amp; 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 safely accommodates 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 &amp; TCTO Kits includes portable instruments 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> <p>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.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	53.457	69.787	92.995	-	92.995	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.132	-	-	-	-	-	-	-	-
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>53.589</b>	<b>69.787</b>	<b>92.995</b>	-	<b>92.995</b>	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equipment	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Guardian Angel	P-5a, P-21	A		- / -	- / 22.976	- / 22.832	- / 24.755	- / -	- / 24.755
P-5	Special Tactics/Combat Control Equipment	P-5a, P-21	A		- / -	- / 2.809	- / 21.422	- / 2.496	- / -	- / 2.496
P-5	Items Less Than \$5 Million	P-5a, P-21	A		- / -	- / 27.804	- / 25.533	- / 65.744	- / -	- / 65.744
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 53.589</b>	<b>- / 69.787</b>	<b>- / 92.995</b>	<b>- / -</b>	<b>- / 92.995</b>

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

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

**Justification:**  
 FY23 Guardian Angel funding procures aircrew flight equipment, life support systems, ground crew equipment, and Guardian Angel equipment.  
  
 FY23 Special Tactics/Combat Control Equipment reduced for rephase of Next Gen Ejection Seat to FY 24-25. Funding procures Aerial Insertion Equipment, Maritime Rescue Equipment, Technical Recovery Equipment, Vehicle Equipment and Visual Augmentation Equipment.  
  
 FY23 Items Less Than \$5 Million funding procures Aircrew Laser Eye Protection Equipment, Next Generation Fixed Wing Helmet, and Next Generation Ejection Seat.  
  
 Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Guardian Angel

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	22.976	22.832	24.755	-	24.755
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	22.976	22.832	24.755	-	24.755
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>22.976</b>	<b>22.832</b>	<b>24.755</b>	-	<b>24.755</b>

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 <sup>(f)</sup>	-	-	-	0.015	787	11.805	0.015	787	11.805	0.015	854	12.810	-	-	-	0.015	854	12.810
Technical Recovery Equipment <sup>(f)</sup>	-	-	-	0.079	23	1.817	0.079	25	1.975	0.079	25	1.975	-	-	-	0.079	25	1.975
Medical Equipment <sup>(f)</sup>	-	-	-	0.020	1	0.020	0.020	1	0.020	0.020	1	0.020	-	-	-	0.020	1	0.020
Maritime Rescue Equipment <sup>(f)</sup>	-	-	-	0.026	1	0.026	0.026	1	0.026	0.026	1	0.026	-	-	-	0.026	1	0.026
Information Management Equipment <sup>(f)</sup>	-	-	-	0.002	782	1.564	0.002	790	1.580	0.002	848	1.696	-	-	-	0.002	848	1.696
SERE <sup>(f)</sup>	-	-	-	0.020	1	0.020	0.020	1	0.020	0.020	1	0.020	-	-	-	0.020	1	0.020
Guardian Angel Enhanced Night Vision Systems <sup>(f)</sup>	-	-	-	0.018	284	5.111	0.018	265	4.770	0.018	309	5.566	-	-	-	0.018	309	5.566
PMA Contractor Services	-	-	-	2.613	1	2.613	2.636	1	2.636	2.642	1	2.642	-	-	-	2.642	1	2.642
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	22.976	-	-	22.832	-	-	24.755	-	-	-	-	-	24.755
<i>Subtotal: Hardware - Guardian Angel Cost</i>	-	-	-	-	-	22.976	-	-	22.832	-	-	24.755	-	-	-	-	-	24.755
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>22.976</b>	-	-	<b>22.832</b>	-	-	<b>24.755</b>	-	-	-	-	-	<b>24.755</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Guardian Angel
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	22.976	22.832	24.755	-	24.755
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	22.976	22.832	24.755	-	24.755

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



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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force								Date: April 2021				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
3080F / 04 / 2			842990 / Personal Safety and Rescue Equipment					Guardian Angel				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Aerial Insertion Equipment <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2021	Sep 2021	787	0.015	Y		Dec 2020
Aerial Insertion Equipment <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2022	Sep 2022	787	0.015	Y		Dec 2021
Aerial Insertion Equipment <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2023	Sep 2023	854	0.015	Y		Dec 2022
Technical Recovery Equipment <sup>(†)</sup>		2021	Tribalco LLC / MD	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2021	Sep 2021	23	0.079	Y		Dec 2020
Technical Recovery Equipment <sup>(†)</sup>		2022	Tribalco LLC / MD	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2022	Sep 2022	25	0.079	Y		Dec 2021
Technical Recovery Equipment <sup>(†)</sup>		2023	Tribalco LLC / MD	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2023	Sep 2023	25	0.079	Y		Dec 2022
Medical Equipment <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Mar 2021	Feb 2022	1	0.020	Y		Jan 2021
Medical Equipment <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Mar 2022	Feb 2023	1	0.020	Y		Jan 2022
Medical Equipment <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Mar 2023	Feb 2024	1	0.020	Y		Jan 2023
Maritime Rescue Equipment <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Feb 2021	Oct 2021	1	0.026	Y		Dec 2020
Maritime Rescue Equipment <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Feb 2022	Oct 2022	1	0.026	Y		Dec 2021
Maritime Rescue Equipment <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Feb 2023	Oct 2023	1	0.026	Y		Dec 2022
Information Management Equipment <sup>(†)</sup>		2021	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2021	Sep 2021	782	0.002	Y		Nov 2020
Information Management Equipment <sup>(†)</sup>		2022	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2022	Sep 2022	790	0.002	Y		Nov 2021
Information Management Equipment <sup>(†)</sup>		2023	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2023	Sep 2023	848	0.002	Y		Nov 2022
SERE <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Mar 2021	Feb 2022	1	0.020	Y		Jan 2021
SERE <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Mar 2022	Feb 2023	1	0.020	Y		Jan 2022
SERE <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Mar 2023	Feb 2024	1	0.020	Y		Jan 2023
Guardian Angel Enhanced Night Vision Systems <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Apr 2021	Mar 2022	284	0.018	Y		Jan 2021

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Guardian Angel
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Guardian Angel Enhanced Night Vision Systems <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Apr 2022	Mar 2023	265	0.018	Y		Jan 2022
Guardian Angel Enhanced Night Vision Systems <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Apr 2023	Mar 2024	309	0.018	Y		Jan 2023

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

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**Exhibit P-21, Production Schedule: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Guardian Angel
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Cost Elements (Units in Each)						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Aerial Insertion Equipment																																			
	1	2021	AF	787	0	787																												0	
	1	2022	AF	787	0	787																												717	
	1	2023	AF	854	0	854																												854	
Technical Recovery Equipment																																			
	2	2021	AF	23	0	23																												0	
	2	2022	AF	25	0	25																												23	
	2	2023	AF	25	0	25																												25	
Medical Equipment																																			
	3	2021	AF	1	0	1																												0	
	3	2022	AF	1	0	1																												1	
	3	2023	AF	1	0	1																												1	
Maritime Rescue Equipment																																			
	4	2021	AF	1	0	1																												0	
	4	2022	AF	1	0	1																												1	
	4	2023	AF	1	0	1																												1	
Information Management Equipment																																			
	5	2021	AF	782	0	782																												0	
	5	2022	AF	790	0	790																												725	
	5	2023	AF	848	0	848																												848	
SERE																																			
	6	2021	AF	1	0	1																												0	
	6	2022	AF	1	0	1																												1	
	6	2023	AF	1	0	1																												1	
Guardian Angel Enhanced Night Vision Systems																																			
	7	2021	AF	284	0	284																												0	
	7	2022	AF	265	0	265																												265	
	7	2023	AF	309	0	309																												309	

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**Exhibit P-21, Production Schedule: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Guardian Angel
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
<b>Aerial Insertion Equipment</b>																															
1		2021	AF	787	787	0																							0		
1		2022	AF	787	70	717	60	65	65	65	60	65	65	65	65	65	17												0		
1		2023	AF	854	0	854				A -	-	-	-	-	-	-	75	65	70	70	70	65	70	70	70	70	65	70	24	0	
<b>Technical Recovery Equipment</b>																															
2		2021	AF	23	23	0																							0		
2		2022	AF	25	2	23	3	2	2	2	2	2	2	2	2	4													0		
2		2023	AF	25	0	25				A -	-	-	-	-	-	-	3	2	3	2	2	2	2	2	2	2	2	3	0		
<b>Medical Equipment</b>																															
3		2021	AF	1	1	0																							0		
3		2022	AF	1	0	1	-	-	-	-	1																		0		
3		2023	AF	1	0	1						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		0		
<b>Maritime Rescue Equipment</b>																															
4		2021	AF	1	1	0																							0		
4		2022	AF	1	0	1	1																						0		
4		2023	AF	1	0	1						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		0		
<b>Information Management Equipment</b>																															
5		2021	AF	782	782	0																							0		
5		2022	AF	790	65	725	75	65	75	60	65	65	90	60	70	50	50												0		
5		2023	AF	848	0	848				A -	-	-	-	-	-	-	70	75	65	70	75	70	75	80	70	70	65	63	0		
<b>SERE</b>																															
6		2021	AF	1	1	0																							0		
6		2022	AF	1	0	1	-	-	-	-	1																		0		
6		2023	AF	1	0	1						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		0		
<b>Guardian Angel Enhanced Night Vision Systems</b>																															
7		2021	AF	284	284	0																							0		
7		2022	AF	265	0	265	-	-	-	-	-	55	50	50	50	45	15												0		
7		2023	AF	309	0	309							A -	-	-	-	-	-	-	-	-	-	-	50	50	50	50	50	59	0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Guardian Angel
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Multiple - Multiple	1	1	1,000	1	4	8	12	0	0	0	0
2	Tribalco LLC - MD	1	1	200	1	4	8	12	0	0	0	0
3	Multiple - Multiple	1	1	100	1	6	11	17	0	0	0	0
4	Multiple - Multiple	1	1	50	1	5	8	13	0	0	0	0
5	Black Diamond, LLC - AZ	1	1	1,000	1	4	8	12	0	0	0	0
6	Multiple - Multiple	1	1	20	1	6	11	17	0	0	0	0
7	Multiple - Multiple	1	1	500	1	7	11	18	0	0	0	0

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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2							<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment						<b>Item Number / Title [DODIC]:</b> Special Tactics/Combat Control Equipment					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		2.809		21.422		2.496		-		2.496				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		2.809		21.422		2.496		-		2.496				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
<b>Total Obligation Authority (\$ in Millions)</b>				-		<b>2.809</b>		<b>21.422</b>		<b>2.496</b>		-		<b>2.496</b>				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - Special Tactics/Combat Control Equipment Cost																		
Recurring Cost																		
Aerial Insertion Equipment <sup>(†)</sup>	-	-	-	0.015	98	1.475	0.015	608	9.098	0.015	79	1.184	-	-	-	0.015	79	1.184
Maritime Rescue Equipment <sup>(†)</sup>	-	-	-	0.026	11	0.286	0.026	237	6.162	0.026	8	0.208	-	-	-	0.026	8	0.208
Technical Recovery Equipment <sup>(†)</sup>	-	-	-	0.079	10	0.790	0.079	70	5.553	0.079	10	0.790	-	-	-	0.079	10	0.790
Vehicular Equipment <sup>(†)</sup>	-	-	-	0.240	1	0.240	0.296	2	0.591	0.296	1	0.296	-	-	-	0.296	1	0.296
Visual Augmentation Capabilities <sup>(†)</sup>	-	-	-	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>	-	-	-	-	-	2.809	-	-	21.422	-	-	2.496	-	-	-	-	-	2.496
<i>Subtotal: Hardware - Special Tactics/Combat Control Equipment Cost</i>	-	-	-	-	-	2.809	-	-	21.422	-	-	2.496	-	-	-	-	-	2.496
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	2.809	-	-	21.422	-	-	2.496	-	-	-	-	-	2.496
<b>Secondary Distribution</b>							<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>			
AF	Quantity						-		-		-		-		-			

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Special Tactics/Combat Control Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
	Total Obligation Authority	2.809	21.422	2.496	-	2.496
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>2.809</b>	<b>21.422</b>	<b>2.496</b>	<b>-</b>	<b>2.496</b>

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

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Special Tactics/Combat Control Equipment
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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
Aerial Insertion Equipment <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2021	Sep 2021	98	0.015	Y		Dec 2020
Aerial Insertion Equipment <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2022	Sep 2022	608	0.015	Y		Dec 2021
Aerial Insertion Equipment <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2023	Sep 2023	79	0.015	Y		Dec 2022
Maritime Rescue Equipment <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Feb 2021	Oct 2021	11	0.026	Y		Dec 2020
Maritime Rescue Equipment <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Feb 2022	Oct 2022	237	0.026	Y		Dec 2021
Maritime Rescue Equipment <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Feb 2023	Oct 2023	8	0.026	Y		Dec 2022
Technical Recovery Equipment <sup>(†)</sup>		2021	Tribalco LLC / MD	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2021	Sep 2021	10	0.079	Y		Dec 2020
Technical Recovery Equipment <sup>(†)</sup>		2022	Tribalco LLC / MD	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2022	Sep 2022	70	0.079	Y		Dec 2021
Technical Recovery Equipment <sup>(†)</sup>		2023	Tribalco LLC / MD	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2023	Sep 2023	10	0.079	Y		Dec 2022
Vehicular Equipment <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2021	Dec 2021	1	0.240	Y		Nov 2020
Vehicular Equipment <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2022	Dec 2022	2	0.296	Y		Nov 2021
Vehicular Equipment <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Jan 2023	Dec 2023	1	0.296	Y		Nov 2022
Visual Augmentation Capabilities <sup>(†)</sup>		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Apr 2021	Mar 2022	1	0.018	Y		Jan 2021
Visual Augmentation Capabilities <sup>(†)</sup>		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Apr 2022	Mar 2023	1	0.018	Y		Jan 2022
Visual Augmentation Capabilities <sup>(†)</sup>		2023	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Apr 2023	Mar 2024	1	0.018	Y		Jan 2023

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



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Exhibit P-21, Production Schedule: PB 2023 Air Force																							Date: April 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													
Cost Elements (Units in Each)						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
Aerial Insertion Equipment																																	
1	2021	AF		98	0	98					A -	-	-	-	-	-	-	8	8	10	10	10	9	9	10	10	10	4		0			
1	2022	AF		608	0	608																A -	-	-	-	-	-	-	-	50	558		
1	2023	AF		79	0	79																								79			
Maritime Rescue Equipment																																	
2	2021	AF		11	0	11					A -	-	-	-	-	-	-	5	5	1										0			
2	2022	AF		237	0	237																A -	-	-	-	-	-	-	-	237			
2	2023	AF		8	0	8																								8			
Technical Recovery Equipment																																	
3	2021	AF		10	0	10					A -	-	-	-	-	-	-	2	2	2	2	2								0			
3	2022	AF		70	0	70																A -	-	-	-	-	-	-	-	6	64		
3	2023	AF		10	0	10																								10			
Vehicular Equipment																																	
4	2021	AF		1	0	1					A -	-	-	-	-	-	-	-	-	-	1									0			
4	2022	AF		2	0	2																A -	-	-	-	-	-	-	-	2			
4	2023	AF		1	0	1																								1			
Visual Augmentation Capabilities																																	
5	2021	AF		1	0	1					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			0			
5	2022	AF		1	0	1																								1			
5	2023	AF		1	0	1																								1			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2										<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment										<b>Item Number / Title [DODIC]:</b> Special Tactics/Combat Control Equipment									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
<b>Aerial Insertion Equipment</b>																															
	1	2021	AF	98	98	0																							0		
	1	2022	AF	608	50	558	45	50	45	60	40	50	50	50	50	60	58												0		
	1	2023	AF	79	0	79				A -	-	-	-	-	-	-	-	8	8	9	6	8	7	9	7	8	6	3	0		
<b>Maritime Rescue Equipment</b>																															
	2	2021	AF	11	11	0																							0		
	2	2022	AF	237	0	237	20	20	20	20	25	15	20	25	20	15	20	17											0		
	2	2023	AF	8	0	8				A -	-	-	-	-	-	-	-	2	2	2	2	2							0		
<b>Technical Recovery Equipment</b>																															
	3	2021	AF	10	10	0																							0		
	3	2022	AF	70	6	64	8	8	7	6	5	6	8	7	4	5													0		
	3	2023	AF	10	0	10				A -	-	-	-	-	-	-	-	2	2	2	2	2							0		
<b>Vehicular Equipment</b>																															
	4	2021	AF	1	1	0																							0		
	4	2022	AF	2	0	2	-	-	2																				0		
	4	2023	AF	1	0	1				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0		
<b>Visual Augmentation Capabilities</b>																															
	5	2021	AF	1	1	0																							0		
	5	2022	AF	1	0	1	-	-	-	-	-	-	1																0		
	5	2023	AF	1	0	1								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2		<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment
		<b>Item Number / Title [DODIC]:</b> Special Tactics/Combat Control Equipment

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Multiple - Multiple	1	1	200	1	4	8	12	0	0	0	0
2	Multiple - Multiple	1	1	50	1	5	8	13	0	0	0	0
3	Tribalco LLC - MD	1	1	200	1	4	8	12	0	0	0	0
4	Multiple - Multiple	1	1	40	1	4	11	15	0	0	0	0
5	Multiple - Multiple	1	1	100	1	7	11	18	0	0	0	0

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

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Items Less Than \$5 Million

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	27.804	25.533	65.744	-	65.744
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	27.804	25.533	65.744	-	65.744
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>27.804</b>	<b>25.533</b>	<b>65.744</b>	-	<b>65.744</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Ancillary Equipment - Items Less Than \$5 Million Cost</b>																		
Recurring Cost																		
Night Vision Goggles Enduring Capability <sup>(†)</sup>	-	-	-	0.004	3,199	11.768	0.003	860	2.796	-	-	-	-	-	-	-	-	-
Night Vision Goggles <sup>(†)</sup>	-	-	-	0.010	140	1.403	0.010	146	1.496	0.009	4,979	44.809	-	-	-	0.009	4,979	44.809
Aircrew Laser Eye Protection <sup>(†)</sup>	-	-	-	0.001	3,477	3.997	0.001	5,216	6.039	0.001	3,478	4.000	-	-	-	0.001	3,478	4.000
Aircrew Flight Equipment <sup>(†)</sup>	-	-	-	0.016	250	4.000	0.089	149	13.192	0.037	401	14.863	-	-	-	0.037	401	14.863
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	21.168	-	-	23.523	-	-	63.672	-	-	-	-	-	63.672
<i>Subtotal: Ancillary Equipment - Items Less Than \$5 Million Cost</i>	-	-	-	-	-	21.168	-	-	23.523	-	-	63.672	-	-	-	-	-	63.672
<b>Support - Items Less Than \$5 Million Cost</b>																		
Mission Support Personnel and Travel	-	-	-	-	-	6.636	-	-	2.010	-	-	2.072	-	-	-	-	-	2.072
<i>Subtotal: Support - Items Less Than \$5 Million Cost</i>	-	-	-	-	-	6.636	-	-	2.010	-	-	2.072	-	-	-	-	-	2.072
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>27.804</b>	-	-	<b>25.533</b>	-	-	<b>65.744</b>	-	-	-	-	-	<b>65.744</b>

**Remarks:**

Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Items Less Than \$5 Million
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	27.672	25.533	65.744	-	65.744
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	0.132	-	-	-	-
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>27.804</b>	<b>25.533</b>	<b>65.744</b>	-	<b>65.744</b>

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Items Less Than \$5 Million
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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
Night Vision Goggles Enduring Capability		2021	L3 Harris / Virginia Beach, VA	PO	AFLCMC/WN - Agile Combat Systems	Mar 2021	May 2021	3,199	0.004	Y		Feb 2021
Night Vision Goggles Enduring Capability		2022	L3 Harris / Virginia Beach, VA	PO	AFLCMC/WN - Agile Combat Systems	Mar 2022	May 2022	860	0.003	Y		Feb 2022
Night Vision Goggles <sup>(†)</sup>		2021	L3 Harris / Virginia Beach, VA	MIPR	AFLCMC/WN - Agile Combat Systems	Mar 2021	May 2021	140	0.010	Y		
Night Vision Goggles <sup>(†)</sup>		2022	L3 Harris / Virginia Beach, VA	MIPR	AFLCMC/WN - Agile Combat Systems	May 2022	Jul 2022	146	0.010	Y		
Night Vision Goggles <sup>(†)</sup>		2023	L3 Harris / Virginia Beach, VA	MIPR	AFLCMC/WN - Agile Combat Systems	Mar 2023	May 2023	4,979	0.009	Y		
Aircrew Laser Eye Protection <sup>(†)</sup>		2021	Gentex / Carbondale, PA	C / IDIQ	AFLCMC/WN - Agile Combat Systems	Jan 2021	Jun 2022	3,477	0.001	Y		
Aircrew Laser Eye Protection <sup>(†)</sup>		2022	Gentex / Carbondale, PA	C / IDIQ	AFLCMC/WN - Agile Combat Systems	Mar 2022	Jun 2022	5,216	0.001	Y		
Aircrew Laser Eye Protection <sup>(†)</sup>		2023	Gentex / Carbondale, PA	C / IDIQ	AFLCMC/WN - Agile Combat Systems	Mar 2023	Mar 2023	3,478	0.001	Y		
Aircrew Flight Equipment <sup>(†)</sup>		2021	Various / Various	C / IDIQ	AFLCMC/WN - Agile Combat Systems	Feb 2021	Mar 2021	250	0.016	Y		
Aircrew Flight Equipment <sup>(†)</sup>		2022	Various / Various	C / IDIQ	AFLCMC/WN - Agile Combat Systems	May 2022	Jul 2022	149	0.089	Y		
Aircrew Flight Equipment <sup>(†)</sup>		2023	Various / Various	C / IDIQ	AFLCMC/WN - Agile Combat Systems	Mar 2023	Apr 2023	401	0.037	Y		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Items Less Than \$5 Million
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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
Night Vision Goggles																															
	1	2021	AF	140	0	140																							0		
	1	2022	AF	146	0	146																							0		
	1	2023	AF	4,979	0	4,979																							4,979		
Aircrew Laser Eye Protection																															
	2	2021	AF	3,477	0	3,477																						0			
	2	2022	AF	5,216	0	5,216																						1,216			
	2	2023	AF	3,478	0	3,478																						3,478			
Aircrew Flight Equipment																															
	3	2021	AF	250	0	250																						0			
	3	2022	AF	149	0	149																						0			
	3	2023	AF	401	0	401																						401			
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Items Less Than \$5 Million
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024												
							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			
<b>Night Vision Goggles</b>																																	
	1	2021	AF	140	140	0																							0				
	1	2022	AF	146	146	0																							0				
	1	2023	AF	4,979	0	4,979																							0				
<b>Aircrew Laser Eye Protection</b>																																	
	2	2021	AF	3,477	3,477	0																							0				
	2	2022	AF	5,216	4,000	1,216	1,000	216																					0				
	2	2023	AF	3,478	0	3,478																							0				
<b>Aircrew Flight Equipment</b>																																	
	3	2021	AF	250	250	0																							0				
	3	2022	AF	149	149	0																							0				
	3	2023	AF	401	0	401																							0				



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Personal Safety and Rescue Equipment	<b>Item Number / Title [DODIC]:</b> Items Less Than \$5 Million
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	L3 Harris - Virginia Beach, VA	100	3,500	7,000	0	0	0	0	2	6	2	8
2	Gentex - Carbondale, PA	100	5,000	15,000	2	6	0	6	0	0	0	0
3	Various - Various	1	50	500	0	0	0	0	2	6	1	7

**Remarks:**  
 Aircrew Flight Equipment (AFE) contains varying quantities of Female Bladder Relief solutions as well as AFE testers. Aircrew Laser Eye Protection (ALEP) is composed of varying quantities of Day Spectacle and NVG Snap Shield devices.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq	<b>P-1 Line Item Number / Title:</b> 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
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	11.704	11.274	12.199	-	12.199	12.287	16.560	17.058	17.427	-	98.509
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	11.704	11.274	12.199	-	12.199	12.287	16.560	17.058	17.427	-	98.509
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>11.704</b>	<b>11.274</b>	<b>12.199</b>	-	<b>12.199</b>	<b>12.287</b>	<b>16.560</b>	<b>17.058</b>	<b>17.427</b>	-	<b>98.509</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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.

Funding for this exhibit contained in PE 0207510F

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.711	10.270	11.179	-	11.179	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.882	0.891	0.905	0.000	0.905	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.111	0.113	0.115	0.000	0.115	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq	<b>P-1 Line Item Number / Title:</b> 843040 / Power Conditioning Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	11.704	11.274	12.199	0.000	12.199	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq	<b>P-1 Line Item Number / Title:</b> 843040 / Power Conditioning Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	Power Conditioning Equipment	P-5a, P-21	A		- / -	- / 11.704	- / 11.274	- / 12.199	- / -	- / 12.199
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 11.704</b>	<b>- / 11.274</b>	<b>- / 12.199</b>	<b>- / -</b>	<b>- / 12.199</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 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 23 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843040 / Power Conditioning Equipment	<b>Item Number / Title [DODIC]:</b> Power Conditioning Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	11.704	11.274	12.199	-	12.199
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	11.704	11.274	12.199	-	12.199
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>11.704</b>	<b>11.274</b>	<b>12.199</b>	-	<b>12.199</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Power Conditioning Equipment Cost																		
Recurring Cost																		
4E9B50 <sup>(†)</sup>	-	-	-	0.260	45	11.704	0.256	44	11.274	0.271	45	12.199	-	-	-	0.271	45	12.199
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.704	-	-	11.274	-	-	12.199	-	-	-	-	-	12.199
<i>Subtotal: Hardware - Power Conditioning Equipment Cost</i>	-	-	-	-	-	11.704	-	-	11.274	-	-	12.199	-	-	-	-	-	12.199
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	11.704	-	-	11.274	-	-	12.199	-	-	-	-	-	12.199

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	10.711	10.270	11.179	-	11.179
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	0.882	0.891	0.905	0.000	0.905
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	0.111	0.113	0.115	0.000	0.115
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>11.704</b>	<b>11.274</b>	<b>12.199</b>	-	<b>12.199</b>

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843040 / Power Conditioning Equipment	<b>Item Number / Title [DODIC]:</b> Power Conditioning Equipment
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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
4E9B50 <sup>(t)</sup>		2021	ALLCOM GLOBAL SERVICES, INC. / 201 Stag Industrial BLVD LAKE SAINT LOUIS MO	C / IDIQ	AFLCMC Hill AFB	May 2021	May 2021	15	0.260	Y		
4E9B50 <sup>(t)</sup>		2021	Computer Sites, INC / 1225 S HURON ST DENVER CO	C / IDIQ	AFLCMC Hill AFB	May 2021	May 2021	10	0.260	Y		
4E9B50 <sup>(t)</sup>		2021	EATON CORPORATION / 8609 SIX FORKS RD RALEIGH NC	C / IDIQ	AFLCMC Hill AFB	May 2021	May 2021	10	0.260	Y		
4E9B50 <sup>(t)</sup>		2021	M. C. DEAN, INC. / 1765 GREENSBORO STATION PL STE 1400 TYSONS VA	C / IDIQ	AFLCMC Hill AFB	May 2021	May 2021	10	0.260	Y		
4E9B50 <sup>(t)</sup>		2022	ALLCOM GLOBAL SERVICES, INC. / 201 Stag Industrial BLVD LAKE SAINT LOUIS MO	C / IDIQ	AFLCMC Hill AFB	May 2022	May 2022	14	0.256	Y		
4E9B50 <sup>(t)</sup>		2022	Computer Sites, INC / 1225 S HURON ST DENVER CO	C / IDIQ	AFLCMC Hill AFB	May 2022	May 2022	10	0.256	Y		
4E9B50 <sup>(t)</sup>		2022	EATON CORPORATION / 8609 SIX FORKS RD RALEIGH NC	C / IDIQ	AFLCMC Hill AFB	May 2022	May 2022	10	0.256	Y		
4E9B50 <sup>(t)</sup>		2022	M. C. DEAN, INC. / 1765 GREENSBORO STATION PL STE 1400 TYSONS VA	C / IDIQ	AFLCMC Hill AFB	May 2022	May 2022	10	0.256	Y		
4E9B50 <sup>(t)</sup>		2023	ALLCOM GLOBAL SERVICES, INC. / 201 Stag Industrial BLVD LAKE SAINT LOUIS MO	C / IDIQ	AFLCMC Hill AFB	May 2023	May 2023	15	0.271	Y		
4E9B50 <sup>(t)</sup>		2023	Computer Sites, INC / 1225 S HURON ST DENVER CO	C / IDIQ	AFLCMC Hill AFB	May 2023	May 2023	10	0.271	Y		
4E9B50 <sup>(t)</sup>		2023	EATON CORPORATION / 8609 SIX FORKS RD RALEIGH NC	C / IDIQ	AFLCMC Hill AFB	May 2023	May 2023	10	0.271	Y		
4E9B50 <sup>(t)</sup>		2023	M. C. DEAN, INC. / 1765 GREENSBORO STATION PL STE 1400 TYSONS VA	C / IDIQ	AFLCMC Hill AFB	May 2023	May 2023	10	0.271	Y		

<sup>(t)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843040 / Power Conditioning Equipment	<b>Item Number / Title [DODIC]:</b> Power Conditioning Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
4E9B50																																	
	1	2021	AF	15	0	15																							A15		0		
	2	2021	AF	10	0	10																							A10		0		
	3	2021	AF	10	0	10																							A10		0		
	4	2021	AF	10	0	10																							A10		0		
	1	2022	AF	14	0	14																								A14	0		
	2	2022	AF	10	0	10																								A10	0		
	3	2022	AF	10	0	10																								A10	0		
	4	2022	AF	10	0	10																								A10	0		
	1	2023	AF	15	0	15																									15		
	2	2023	AF	10	0	10																									10		
	3	2023	AF	10	0	10																									10		
	4	2023	AF	10	0	10																									10		
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843040 / Power Conditioning Equipment	<b>Item Number / Title [DODIC]:</b> Power Conditioning Equipment
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023														Fiscal Year 2024														BALANCE
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							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					
4E9B50																																			
	1	2021	AF	15	15	0																								0					
	2	2021	AF	10	10	0																								0					
	3	2021	AF	10	10	0																								0					
	4	2021	AF	10	10	0																								0					
	1	2022	AF	14	14	0																								0					
	2	2022	AF	10	10	0																								0					
	3	2022	AF	10	10	0																								0					
	4	2022	AF	10	10	0																								0					
	1	2023	AF	15	0	15								A8	-	-	7													0					
	2	2023	AF	10	0	10								A10																0					
	3	2023	AF	10	0	10								A10																0					
	4	2023	AF	10	0	10								A10																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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843040 / Power Conditioning Equipment	<b>Item Number / Title [DODIC]:</b> Power Conditioning Equipment
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	ALLCOM GLOBAL SERVICES, INC. - 201 Stag Industrial BLVD LAKE SAINT LOUIS MO			100	1	8	0	8	0	8	0	8
2	Computer Sites, INC - 1225 S HURON ST DENVER CO				0	0	0	0	0	0	0	0
3	EATON CORPORATION - 8609 SIX FORKS RD RALEIGH NC				0	0	0	0	0	0	0	0
4	M. C. DEAN, INC. - 1765 GREENSBORO STATION PL STE 1400 TYSONS VA				0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	12.110	8.594	9.326	-	9.326	15.617	18.529	19.087	19.508	-	102.771
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	12.110	8.594	9.326	-	9.326	15.617	18.529	19.087	19.508	-	102.771
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>12.110</b>	<b>8.594</b>	<b>9.326</b>	-	<b>9.326</b>	<b>15.617</b>	<b>18.529</b>	<b>19.087</b>	<b>19.508</b>	-	<b>102.771</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The Mechanized Materials Handling Equipment (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 stations, cargo storage 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 0104222F, 0207510F, 0207597F, 0502834F, and 0502844F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force							<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq					<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.610	8.294	7.580	-	7.580	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.100	-	1.246	-	1.246	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.400	0.300	0.500	-	0.500	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>12.110</b>	<b>8.594</b>	<b>9.326</b>	-	<b>9.326</b>	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Mechanized Material Handling Equip	P-5a, P-21	A		- / -	- / 12.110	- / 8.594	- / 9.326	- / -	- / 9.326
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 12.110</b>	<b>- / 8.594</b>	<b>- / 9.326</b>	<b>- / -</b>	<b>- / 9.326</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY23 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.  
 FY23 MMHE is to be purchased in the following quantities: 3 material storage and distribution systems, 7 storage aid systems, 4 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3			<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip			<b>Item Number / Title [DODIC]:</b> Mechanized Material Handling Equip		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	12.110	8.594	9.326	-	9.326
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	12.110	8.594	9.326	-	9.326
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	<b>12.110</b>	<b>8.594</b>	<b>9.326</b>	-	<b>9.326</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)			-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Mechanized Material Handling Equip Cost</b>																		
Non Recurring Cost																		
MATERIAL STORAGE AND DISTRIBUTION SYSTEMS <sup>(f)</sup>	-	-	-	0.542	8	4.338	-	-	-	0.392	3	1.175	-	-	-	0.392	3	1.175
STORAGE AIDS SYSTEMS <sup>(f)</sup>	-	-	-	0.509	11	5.602	0.250	1	0.250	0.236	7	1.651	-	-	-	0.236	7	1.651
AERIAL PORT EQUIPMENT <sup>(f)</sup>	-	-	-	0.920	1	0.920	4.097	2	8.194	1.200	4	4.800	-	-	-	1.200	4	4.800
EXTERNAL AIRCRAFT FUEL TANK STORAGE SYSTEMS <sup>(f)</sup>	-	-	-	1.250	1	1.250	-	-	-	1.550	1	1.550	-	-	-	1.550	1	1.550
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	12.110	-	-	8.444	-	-	9.176	-	-	-	-	-	9.176
<i>Subtotal: Hardware - Mechanized Material Handling Equip Cost</i>	-	-	-	-	-	12.110	-	-	8.444	-	-	9.176	-	-	-	-	-	9.176
<b>Support - Mechanized Material Handling Equip Cost</b>																		
PMA Other Government Costs	-	-	-	-	-	-	-	-	0.150	-	-	0.150	-	-	-	-	-	0.150
<i>Subtotal: Support - Mechanized Material Handling Equip Cost</i>	-	-	-	-	-	-	-	-	0.150	-	-	0.150	-	-	-	-	-	0.150
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	12.110	-	-	8.594	-	-	9.326	-	-	-	-	-	9.326

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip	<b>Item Number / Title [DODIC]:</b> Mechanized Material Handling Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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**Remarks:**  
There is no standard system design. Each system of a given type of equipment is uniquely designed for a specific building or base and no two are alike. Unit cost is the average cost of all equipment of that type being installed at all bases.

Note: Totals or subtotals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>						
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	6.610	8.294	7.580	-	7.580
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	4.100	-	1.246	-	1.246
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	1.400	0.300	0.500	-	0.500
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>12.110</b>	<b>8.594</b>	<b>9.326</b>	-	<b>9.326</b>

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip	<b>Item Number / Title [DODIC]:</b> Mechanized Material Handling Equip
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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
MATERIAL STORAGE AND DISTRIBUTION SYSTEMS <sup>(†)</sup>		2021	Various / Various	Various	TBD	Aug 2021	May 2022	8	0.542	Y		
MATERIAL STORAGE AND DISTRIBUTION SYSTEMS <sup>(†)</sup>		2023	TBD / TBD	TBD	TBD	Aug 2023	May 2024	3	0.392	Y	Feb 2023	
STORAGE AIDS SYSTEMS <sup>(†)</sup>		2021	Various / Various	Various	TBD	Aug 2021	May 2022	11	0.509	Y		
STORAGE AIDS SYSTEMS <sup>(†)</sup>		2022	TBD / TBD	C / FFP	GSA	Aug 2022	May 2023	1	0.250	Y	May 2022	
STORAGE AIDS SYSTEMS <sup>(†)</sup>		2023	TBD / TBD	TBD	TBD	Aug 2023	May 2024	7	0.236	Y	Feb 2023	
AERIAL PORT EQUIPMENT <sup>(†)</sup>		2021	Sanki Engineering / Yokota AB JA	C / FFP	AFLCMC Wright Patterson AFB	Aug 2021	Apr 2022	1	0.920	Y		
AERIAL PORT EQUIPMENT <sup>(†)</sup>		2022	Various / Various	Various	TBD	Aug 2022	Aug 2023	2	4.097	Y		
AERIAL PORT EQUIPMENT <sup>(†)</sup>		2023	TBD / TBD	TBD	TBD	Aug 2023	Aug 2024	4	1.200	Y	Feb 2023	
EXTERNAL AIRCRAFT FUEL TANK STORAGE SYSTEMS <sup>(†)</sup>		2021	TBD / JRB New Orleans LA	C / FFP	GSA	Apr 2022	Mar 2023	1	1.250	Y		
EXTERNAL AIRCRAFT FUEL TANK STORAGE SYSTEMS <sup>(†)</sup>		2023	TBD / TBD	TBD	TBD	Aug 2023	Jul 2024	1	1.550	Y	Feb 2023	

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
There is no standard system design. Each system of a given type of equipment is uniquely designed for a specific building or base and no two are alike.

Generally each project at a separate base is put on a separate contract so the response is 'Various' when the quantity is more than 1.

Used TBD for Primary PCO since various was not available.

Selected an average award date when the line refers to more than 1 project/contract.

Selected an average date of first delivery when the line refers to more than 1 project/contract.



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 04 / 3 **P-1 Line Item Number / Title:** 843050 / Mechanized Material Handling Equip **Item Number / Title [DODIC]:** Mechanized Material Handling Equip

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
<b>MATERIAL STORAGE AND DISTRIBUTION SYSTEMS</b>																																			
1		2021	AF	8	0	8											A	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	3	
2		2023	AF	3	0	3																													3
<b>STORAGE AIDS SYSTEMS</b>																																			
3		2021	AF	11	0	11											A	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	6	
4		2022	AF	1	0	1																											A	-	1
4		2023	AF	7	0	7																													7
<b>AERIAL PORT EQUIPMENT</b>																																			
5		2021	AF	1	0	1											A	-	-	-	-	-	-	-	-	-	-	1						0	
6		2022	AF	2	0	2																											A	-	2
7		2023	AF	4	0	4																													4
<b>EXTERNAL AIRCRAFT FUEL TANK STORAGE SYSTEMS</b>																																			
8		2021	AF	1	0	1																											A	-	1
9		2023	AF	1	0	1																													1
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip	<b>Item Number / Title [DODIC]:</b> Mechanized Material Handling Equip
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
<b>MATERIAL STORAGE AND DISTRIBUTION SYSTEMS</b>																															
1		2021	AF	8	5	3	1	1	1																				0		
2		2023	AF	3	0	3																							0		
<b>STORAGE AIDS SYSTEMS</b>																															
3		2021	AF	11	5	6	1	1	1	1	1	1																	0		
4		2022	AF	1	0	1	-	-	-	-	-	-	1																0		
4		2023	AF	7	0	7																							2		
<b>AERIAL PORT EQUIPMENT</b>																															
5		2021	AF	1	1	0																							0		
6		2022	AF	2	0	2	-	-	-	-	-	-	-	-	1	1													0		
7		2023	AF	4	0	4																							2		
<b>EXTERNAL AIRCRAFT FUEL TANK STORAGE SYSTEMS</b>																															
8		2021	AF	1	0	1	-	-	-	-	-	1																	0		
9		2023	AF	1	0	1																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip	<b>Item Number / Title [DODIC]:</b> Mechanized Material Handling Equip
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							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
MATERIAL STORAGE AND DISTRIBUTION SYSTEMS																															
1	2021	AF		8	8	0																							0		
2	2023	AF		3	3	0																							0		
STORAGE AIDS SYSTEMS																															
3	2021	AF		11	11	0																							0		
4	2022	AF		1	1	0																							0		
4	2023	AF		7	5	2		1																					0		
AERIAL PORT EQUIPMENT																															
5	2021	AF		1	1	0																							0		
6	2022	AF		2	2	0																							0		
7	2023	AF		4	2	2		1																					0		
EXTERNAL AIRCRAFT FUEL TANK STORAGE SYSTEMS																															
8	2021	AF		1	1	0																							0		
9	2023	AF		1	1	0																							0		

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 3	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip	<b>Item Number / Title [DODIC]:</b> Mechanized Material Handling Equip
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Various - Various				0	0	0	0	0	0	0	0	0
2	TBD - TBD	1	2	3	1	11	9	20	0	0	0	0	0
3	Various - Various				0	0	0	0	0	0	0	0	0
4	TBD - TBD	1	2	7	1	11	9	20	0	0	0	0	0
5	Sanki Engineering - Yokota AB JA				0	0	0	0	0	0	0	0	0
6	Various - Various				0	0	0	0	0	0	0	0	0
7	TBD - TBD	1	2	4	1	11	12	23	0	0	0	0	0
8	TBD - JRB New Orleans LA				0	0	0	0	0	0	0	0	0
9	TBD - TBD	1	1	1	1	11	11	22	0	0	0	0	0

**Remarks:**  
MMHS and SAS are by definition commercial-off-the-shelf items and production rates do not apply.  
  
Delivery schedules will vary by project/contract and do not apply to this type of equipment.

"A" in the Delivery Schedule indicates the Contract Award Date.  
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	18.392	31.000	52.890	-	52.890	45.142	37.584	42.650	39.538	-	267.196
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	18.392	31.000	52.890	-	52.890	45.142	37.584	42.650	39.538	-	267.196
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>18.392</b>	<b>31.000</b>	<b>52.890</b>	-	<b>52.890</b>	<b>45.142</b>	<b>37.584</b>	<b>42.650</b>	<b>39.538</b>	-	<b>267.196</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Base Procured Equipment:

Organizations throughout the Air Force acquire authorized investment equipment from the General Services Administration, Defense Logistics Agency, and commercial sources when these items exceed \$250,000 in cost or are unavailable through Air Force central procurement. Examples of equipment in this P-1 line typically include equipment and/or specialized tools for road and ground maintenance; vehicle maintenance; vehicle corrosion control; civil engineering maintenance; electrical and carpentry shops; specialized laboratories; kitchen and dining facilities; printing plants; microfilm, graphics support facilities; training ranges; uninterruptible power supply systems, physiological trainers to include, but are not limited to Barney Chairs, Altitude Chambers, Spatial Disorientation Trainers, Hypoxia Familiarization Trainers and Part Task Trainers, Reduced Oxygen Breathing Devices, Terrain Boards, Parachuting Trainers, Aircrew Exercise Equipment.

Funding for this exhibit contained in PEs 0207142F, 0804731F, and 0804752F.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Base Procured Equipment	P-5a, P-21	A		- / -	- / 18.392	- / 31.000	- / 52.890	- / -	- / 52.890
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 18.392</b>	<b>- / 31.000</b>	<b>- / 52.890</b>	<b>- / -</b>	<b>- / 52.890</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 Air Combat Command, PE 0207142F, FY23 funding will procure the Lightning Modular Extendable Rigid Wall Shelter (LMERWS) which is a secure mobile facility for worldwide deployment that fulfills unique requirements to house Autonomic Logistics Information System (ALIS)/Operational Data Integrated Network (ODIN) and peripherals, F-35 intelligence operations, mission planning, Government Systems Security Officer (GSSO) and Information Systems Security Officer (ISSO), and pre/post-flight briefings. The F-35 is non-employable without LMERWS to perform mission planning, maintenance, and sortie generation.

Air Education and Training Command, PE 0804752F, FY23 funding will support AFIT Lab Equipment procurement for AFIT's accredited graduate engineering programs (to include graduate student thesis / dissertations research, and USAF/DoD research needs). Equipment requirements includes (both new / replacement): Scanning Capacitance Module for AFM, Helican Plasma Source, Quantum Gama Polarization, UBridgeman GPU Upgrade, Remote Fast Digital Camera, Hardness Tester, Panda Metal Printer, Split Rail Furnace, Flir High Speed Thermal Camera, Ultra High Speed Video Camera, and SWIR camera.

Global Strke Command, 0101213F, FY23 no funding requested.

Tactical Deception, 0208007F, FY23 no funding requested.

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment	<b>Item Number / Title [DODIC]:</b> Base Procured Equipment
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	18.392	31.000	52.890	-	52.890
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	18.392	31.000	52.890	-	52.890
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>18.392</b>	<b>31.000</b>	<b>52.890</b>	-	<b>52.890</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Base Procured Equipment Cost																		
Recurring Cost																		
Tactical Deception - Base Procured Equipment	-	-	-	7.930	1	7.930	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command - AFIT Scanning Electron Microscope <sup>(†)</sup>	-	-	-	0.999	1	0.999	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command - AFIT Metal AM Printer <sup>(†)</sup>	-	-	-	0.510	1	0.510	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Com - AFIT Specialized Scanning Electron Microscope for Nuclear Research <sup>(†)</sup>	-	-	-	0.998	1	0.998	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command - AFIT FEMTOSECOND Spectroscopy System <sup>(†)</sup>	-	-	-	0.555	1	0.555	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command -	-	-	-	0.680	1	0.680	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment						<b>Item Number / Title [DODIC]:</b> Base Procured Equipment						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
DoD Fire Academy - Trainer Safety Pad <sup>(t)</sup>																		
Air Education and Training Command - DoD Fire Academy - Trainer Renovation <sup>(t)</sup>	-	-	-	0.695	1	0.695	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command - DoD Fire Academy - JP-8 Livee Fire Trainer <sup>(t)</sup>	-	-	-	0.766	1	0.766	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command - LAU OMAX 80X Series Bridget-Style Waterjet Machine <sup>(t)</sup>	-	-	-	0.360	1	0.360	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command - Laughlin BeaverFit Container <sup>(t)</sup>	-	-	-	0.414	1	0.414	-	-	-	-	-	-	-	-	-	-	-	-
Air Education and Training Command - AFIT Chilled Water System <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	1.733	1	1.733	-	-	-	1.733	1	1.733
Air Education and Training Command - Special Warfare Investment Equipment <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	1.825	1	1.825	-	-	-	1.825	1	1.825
Air Education and Training Command - GDF DoD Fire Academy Fire Rescue Trainer <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	1.919	1	1.919	-	-	-	1.919	1	1.919
Air Combat Command - MERWS <sup>(t)</sup>	-	-	-	1.738	1	1.738	1.500	2	3.000	1.500	3	4.500	-	-	-	1.500	3	4.500
Air Combat Command - Sunshades <sup>(t)</sup>	-	-	-	-	-	-	1.077	26	28.000	1.192	36	42.913	-	-	-	1.192	36	42.913
Global Strike Command - Base Procured Equipment	-	-	-	2.747	1	2.747	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	18.392	-	-	31.000	-	-	52.890	-	-	-	-	-	52.890



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment						<b>Item Number / Title [DODIC]:</b> Base Procured Equipment					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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: Hardware - Base Procured Equipment Cost</i>	-	-	-	-	-	18.392	-	-	31.000	-	-	52.890	-	-	-	-	-	52.890
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	18.392	-	-	31.000	-	-	52.890	-	-	-	-	-	52.890

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force								Date: April 2021				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
3080F / 04 / 5			845010 / Base Procured Equipment					Base Procured Equipment				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Air Education and Training Command - AFIT Scanning Electron Microscope <sup>(†)</sup>		2021	Carl Zeiss Inc / White Plains, NY	C / FFP	WPAFB, OH	Jan 2021	Jul 2021	1	0.999	Y		Nov 2020
Air Education and Training Command - AFIT Metal AM Printer <sup>(†)</sup>		2021	Various / Various	C / FFP	WPAFB, OH	Jun 2021	Sep 2021	1	0.510	Y		Nov 2020
Air Education and Training Com - AFIT Specialized Scanning Electron Microscope for Nuclear Research <sup>(†)</sup>		2021	Various / Various	C / FFP	WPAFB, OH	May 2021	Sep 2021	1	0.998	Y		Jan 2021
Air Education and Training Command - AFIT FEMTOSECOND Spectroscopy System <sup>(†)</sup>		2021	Various / Various	C / FFP	WPAFB, OH	Jan 2021	May 2021	1	0.555	Y		Nov 2020
Air Education and Training Command - DoD Fire Academy - Trainer Safety Pad <sup>(†)</sup>		2021	Various / Various	Various	WPAFB, OH	Jan 2021	Jul 2021	1	0.680	Y		Nov 2020
Air Education and Training Command - DoD Fire Academy - Trainer Renovation <sup>(†)</sup>		2021	Modular Concepts Inc / Ft Worth, TX	C / FFP	WPAFB, OH	Sep 2021	Jan 2022	1	0.695	Y		Jun 2021
Air Education and Training Command - DoD Fire Academy - JP-8 Livee Fire Trainer <sup>(†)</sup>		2021	Various / Various	Various	WPAFB, OH	Sep 2021	Jan 2022	1	0.766	Y		Apr 2021
Air Education and Training Command - LAU OMAX 80X Series Bridget-Style Waterjet Machine <sup>(†)</sup>		2021	Various / Various	Various	WPAFB, OH	Sep 2021	Jan 2022	1	0.360	Y		Apr 2021
Air Education and Training Command - Laughlin BeaverFit Container <sup>(†)</sup>		2021	Various / Various	Various	WPAFB, OH	Sep 2021	Jan 2022	1	0.414	Y		Apr 2021
Air Education and Training Command - AFIT Chilled Water System <sup>(†)</sup>		2023	Various / Various	TBD	TBD	Jan 2023	Jul 2023	1	1.733	Y		Nov 2022
Air Education and Training Command - Special Warfare Investment Equipment <sup>(†)</sup>		2023	TBD / TBD	TBD	TBD	Jan 2023	Jul 2023	1	1.825	Y		Nov 2022
Air Education and Training Command - GDF DoD Fire Academy Fire Rescue Trainer <sup>(†)</sup>		2023	Various / Various	Various	TBD	Jan 2023	Jul 2023	1	1.919	Y		Nov 2022
Air Combat Command - MERWS <sup>(†)</sup>		2021	General Dynamics / St Petersburg, FL	MIPR	ARMY/ACC	Jan 2021	Jul 2021	1	1.738	Y		Nov 2020

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment	<b>Item Number / Title [DODIC]:</b> Base Procured Equipment
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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
Air Combat Command - MERWS <sup>(†)</sup>		2022	General Dynamics / St Petersburg, FL	MIPR	ARMY/ACC	Jan 2022	Jul 2022	2	1.500	Y		Nov 2021
Air Combat Command - MERWS <sup>(†)</sup>		2023	General Dynamics / St Petersburg FL	MIPR	ARMY/ACC	Jan 2023	Jul 2023	3	1.500	Y		Nov 2022
Air Combat Command - Sunshades <sup>(†)</sup>		2022	General Dynamics / St Petersburg FL	MIPR	ARMY/ACC	Jan 2022	Jul 2022	26	1.077	Y		Nov 2021
Air Combat Command - Sunshades <sup>(†)</sup>		2023	General Dynamics / St Petersburg FL	MIPR	ARMY/ACC	Jan 2023	Jul 2023	36	1.192	Y		Nov 2022

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment	<b>Item Number / Title [DODIC]:</b> Base Procured Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							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					
Air Education and Training Command - AFIT Scanning Electron Microscope																																			
1	2021	AF		1	0	1																												0	
Air Education and Training Command - AFIT Metal AM Printer																																			
2	2021	AF		1	0	1																												0	
Air Education and Training Com - AFIT Specialized Scanning Electron Microscope for Nuclear Research																																			
3	2021	AF		1	0	1																												0	
Air Education and Training Command - AFIT FEMTOSECOND Spectroscopy System																																			
4	2021	AF		1	0	1																												0	
Air Education and Training Command - DoD Fire Academy - Trainer Safety Pad																																			
5	2021	AF		1	0	1																												0	
Air Education and Training Command - DoD Fire Academy - Trainer Renovation																																			
6	2021	AF		1	0	1																												0	
Air Education and Training Command - DoD Fire Academy - JP-8 Livee Fire Trainer																																			
7	2021	AF		1	0	1																												0	
Air Education and Training Command - LAU OMAX 80X Series Bridget-Style Waterjet Machine																																			
8	2021	AF		1	0	1																												0	
Air Education and Training Command - Laughlin BeaverFit Container																																			
9	2021	AF		1	0	1																												0	
Air Education and Training Command - AFIT Chilled Water System																																			
10	2023	AF		1	0	1																												1	
Air Education and Training Command - Special Warfare Investment Equipment																																			
11	2023	AF		1	0	1																												1	
Air Education and Training Command - GDF DoD Fire Academy Fire Rescue Trainer																																			
12	2023	AF		1	0	1																												1	
Air Combat Command - MERWS																																			
13	2021	AF		1	0	1																												0	
13	2022	AF		2	0	2																												0	
14	2023	AF		3	0	3																												3	
Air Combat Command - Sunshades																																			
15	2022	AF		26	0	26																												0	
15	2023	AF		36	0	36																												36	

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment	<b>Item Number / Title [DODIC]:</b> Base Procured Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Air Education and Training Command - AFIT Scanning Electron Microscope																																	
1	2021	AF		1	1	0																							0				
Air Education and Training Command - AFIT Metal AM Printer																																	
2	2021	AF		1	1	0																							0				
Air Education and Training Com - AFIT Specialized Scanning Electron Microscope for Nuclear Research																																	
3	2021	AF		1	1	0																							0				
Air Education and Training Command - AFIT FEMTOSECOND Spectroscopy System																																	
4	2021	AF		1	1	0																							0				
Air Education and Training Command - DoD Fire Academy - Trainer Safety Pad																																	
5	2021	AF		1	1	0																							0				
Air Education and Training Command - DoD Fire Academy - Trainer Renovation																																	
6	2021	AF		1	1	0																							0				
Air Education and Training Command - DoD Fire Academy - JP-8 Livee Fire Trainer																																	
7	2021	AF		1	1	0																							0				
Air Education and Training Command - LAU OMAX 80X Series Bridget-Style Waterjet Machine																																	
8	2021	AF		1	1	0																							0				
Air Education and Training Command - Laughlin BeaverFit Container																																	
9	2021	AF		1	1	0																							0				
Air Education and Training Command - AFIT Chilled Water System																																	
10	2023	AF		1	0	1																							0				
Air Education and Training Command - Special Warfare Investment Equipment																																	
11	2023	AF		1	0	1																							0				
Air Education and Training Command - GDF DoD Fire Academy Fire Rescue Trainer																																	
12	2023	AF		1	0	1																							0				
Air Combat Command - MERWS																																	
13	2021	AF		1	1	0																							0				
13	2022	AF		2	2	0																							0				
14	2023	AF		3	0	3																							0				
Air Combat Command - Sunshades																																	
15	2022	AF		26	26	0																							0				
15	2023	AF		36	0	36																							0				

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment	<b>Item Number / Title [DODIC]:</b> Base Procured Equipment
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Carl Zeiss Inc - White Plains, NY			40	0	4	6	10	0	0	0	0
2	Various - Various			40	0	9	3	12	0	0	0	0
3	Various - Various			40	0	8	4	12	0	0	0	0
4	Various - Various			40	0	4	4	8	0	0	0	0
5	Various - Various			40	0	4	6	10	0	0	0	0
6	Modular Concepts Inc - Ft Worth, TX			40	0	12	4	16	0	0	0	0
7	Various - Various			40	0	12	4	16	0	0	0	0
8	Various - Various			40	0	12	4	16	0	0	0	0
9	Various - Various			40	0	12	4	16	0	0	0	0
10	Various - Various			40	0	4	6	10	0	0	0	0
11	TBD - TBD			40	0	4	6	10	0	0	0	0
12	Various - Various			40	0	4	6	10	0	0	0	0
13	General Dynamics - St Petersburg, FL				0	0	0	0	0	0	0	0
14	General Dynamics - St Petersburg FL			40	0	0	0	0	0	4	6	10
15	General Dynamics - St Petersburg FL			40	0	0	0	0	0	4	6	10

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	20.872	32.139	231.552	-	231.552	150.652	58.992	48.741	94.161	-	637.109
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	20.872	32.139	231.552	-	231.552	150.652	58.992	48.741	94.161	-	637.109
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>20.872</b>	<b>32.139</b>	<b>231.552</b>	-	<b>231.552</b>	<b>150.652</b>	<b>58.992</b>	<b>48.741</b>	<b>94.161</b>	-	<b>637.109</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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. Large-sized robots used to interrogate and defeat Improvised Explosive Devices (IEDs) in garrison and downrange. Funding for this exhibit contained in PE 0204424F.

Nuclear/Chemical/Biological Defense: Radiological Detection Family of Systems (FoS): for Emergency Management, and AFRAT. Critical capabilities to identify and alert for existence of CBRN threats. Funding for this exhibit contained in PE 0207593F.

Rapid Airfield Damage Recovery (RADR):

- Rapid Explosive Hazard Mitigation (REHM) Family of Systems (FoS) equipment capabilities designed to rapidly clear unexploded ordnance from airfields after attack through the use of physical actions and kinetic movement. Funding for this exhibit contained in PE 0208028F.

- Recover Airbase Denied by Ordnance (RADBO): Directed energy capability designed to rapid 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.

- RADR Robotic Appliques: Enhances vehicular operations through remote mechanisms to bolster safety of users during Explosive clearing or expedited airfield repair. Funding for this exhibit contained in PE 0208028F.

- Water and Fuels Expedient Repair System (WaFERS): Component of RADR Ensemble of capabilities. Enables swift restoration of critical water and fuel systems in contested environments. Funding for this exhibit contained in PE 0208028F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment		<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Tactical Communication Packages (Harris Equipment): Enables continuity of operations through compatible, secure communications architecture in garrison and down range. Funding for this exhibit contained in PE 0208028F.



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Engineering and EOD Equipment	P-5a, P-21	A		- / -	- / 20.872	- / 32.139	- / 231.552	- / -	- / 231.552
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 20.872</b>	<b>- / 32.139</b>	<b>- / 231.552</b>	<b>- / -</b>	<b>- / 231.552</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY23 Baseline funding of 17.641M will procure Explosive Ordnance Disposal (EOD) capabilities in the following quantities: 17.641M (0.299M unit cost) purchases 59 each EOD unmanned systems (Large-size ground robotics).

FY23 Baseline Funding 100.00M in PEC 0208028F will procure Recovery Air Base Denied By Ordnance (RADBO) capabilities in the following quantities: 100.00M (4.000M unit cost) procures 25 each RADBO capability.

FY23 Baseline Funding 29.350M in will procure Rapid Airfield Damage Assessment Systems (RADAS) SPrial 1 in the following quantities: 29.350M (0.600M unit cost) procures 49 each RADAS Spiral 1.

FY23 Baseline Funding 21.280M in will procure Rapid Explosive Hazard Mitigation (REHM) Family of Systems (FoS) in the following quantities: 21.280M (1.330M unit cost) procures 16 each fully kitted Up-armored front end loaders.

FY23 Baseline Funding of 2.574M Nuclear/Chemical/Biological Defense will procure Radiological Detection Family of Systems (FoS) in the following quantities: 2.574M (0.011M unit cost) procures 234 each Radiological systems.

FY23 Baseline Funding 5.600M will procure Tactical Communications Package (Harris Equipment) in the following quantities: 5.600M (0.008M unit cost) procures 700 each communication packages.

FY23 Baseline Funding 42.607M will procure RADR Robotic Appliques in the following quantities: 42.607M (0.177M unit cost) procures 241 each applique kits.

FY23 Baseline Funding 12.500M will procure Water and Fuels Expedient Repair Systems (WaFERS) in the following quantities: 12.500M (2.500M unit cost) procures 5 each WaFERS kits.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>						<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5			<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment			<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	20.872	32.139	231.552	-	231.552
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	20.872	32.139	231.552	-	231.552
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	<b>20.872</b>	<b>32.139</b>	<b>231.552</b>	-	<b>231.552</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)			-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Logistics - Engineering and EOD Equipment Cost</b>																		
<b>Recurring Cost</b>																		
EOD X-Ray Hazard Diagnostic Systems <sup>(†)</sup>	-	-	-	0.015	314	4.633	-	-	-	-	-	-	-	-	-	-	-	-
EOD Unmanned Systems (Large) <sup>(†)</sup>	-	-	-	0.390	32	12.480	0.390	44	17.160	0.299	59	17.641	-	-	-	0.299	59	17.641
EOD Recovery of Airfield Denied By Ordnance (RADBO) system - RADR Family of Systems <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	4.000	25	100.000	-	-	-	4.000	25	100.000
Rapid Airfield Damage Assessment Systems (Spiral 1) <sup>(†)</sup>	-	-	-	-	-	-	0.540	6	3.241	0.599	49	29.350	-	-	-	0.599	49	29.350
Rapid Explosive Hazard Mitigation (REHM) - Family of Systems (FoS) <sup>(†)</sup>	-	-	-	-	-	-	1.092	8	8.738	1.330	16	21.280	-	-	-	1.330	16	21.280
CBRN Radiological Detection Family of Systems (FoS) <sup>(†)</sup>	-	-	-	0.021	140	2.997	0.011	280	3.000	0.011	234	2.574	-	-	-	0.011	234	2.574
Tactical Communication Packages (Harris Equipment) <sup>(†)</sup>	-	-	-	0.024	32	0.762	-	-	-	0.008	700	5.600	-	-	-	0.008	700	5.600

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment						<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
RADR Robotic Applique Kits <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	0.177	241	42.607	-	-	-	0.177	241	42.607
RADR Water and Fuels Expedient Repair Kit (WaFERS) <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	2.500	5	12.500	-	-	-	2.500	5	12.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	20.872	-	-	32.139	-	-	231.552	-	-	-	-	-	231.552
<i>Subtotal: Logistics - Engineering and EOD Equipment Cost</i>	-	-	-	-	-	20.872	-	-	32.139	-	-	231.552	-	-	-	-	-	231.552
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	20.872	-	-	32.139	-	-	231.552	-	-	-	-	-	231.552

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment	<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment
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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 (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
EOD X-Ray Hazard Diagnostic Systems <sup>(†)</sup>		2021	Vidisco USA / Arlington, VA	PO	AFCEC	Jul 2021	May 2022	314	0.015	Y		Jul 2020
EOD Unmanned Systems (Large) <sup>(†)</sup>		2021	L3 Harris / Palm Bay, FL	PO	AFCEC	Jul 2021	May 2022	32	0.390	Y		Feb 2021
EOD Unmanned Systems (Large) <sup>(†)</sup>		2022	L3 Harris / Palm Bay, FL	PO	AFCEC	May 2022	Mar 2023	44	0.390	Y		Feb 2021
EOD Unmanned Systems (Large) <sup>(†)</sup>		2023	L3 Harris / Palm Bay, FL	PO	AFCEC	Mar 2023	Jan 2024	59	0.299	Y		Feb 2021
EOD Recovery of Airfield Denied By Ordnance (RADBO) system - RADR Family of Systems <sup>(†)</sup>		2023	Parsons / Huntsville, AL	MIPR	AFCEC	Jul 2023	Jan 2024	25	4.000	Y		
Rapid Airfield Damage Assessment Systems (Spiral 1) <sup>(†)</sup>		2022	To Be Solicited / Tyndall AFB	MIPR	AFCEC	Jul 2022	Oct 2022	6	0.540	Y		Jan 2022
Rapid Airfield Damage Assessment Systems (Spiral 1) <sup>(†)</sup>		2023	To Be Solicited / Tyndall AFB	MIPR	AFCEC	Jul 2023	Oct 2023	49	0.599	Y		Jan 2022
Rapid Explosive Hazard Mitigation (REHM) - Family of Systems (FoS) <sup>(†)</sup>		2022	To Be Solicited / Tyndall AFB	MIPR	AFCEC	Jul 2022	Oct 2022	8	1.092	Y		
Rapid Explosive Hazard Mitigation (REHM) - Family of Systems (FoS) <sup>(†)</sup>		2023	To Be Solicited / Tyndall AFB	MIPR	AFCEC	Jul 2023	Oct 2023	16	1.330	Y		
CBRN Radiological Detection Family of Systems (FoS)		2021	Symetrica Inc. / Westford, MA	MIPR	AFCEC	Mar 2021	Jun 2022	140	0.021	Y		
CBRN Radiological Detection Family of Systems (FoS)		2022	Visionary Products, Inc. / Draper, UT	MIPR	AFCEC	Sep 2022	Jan 2023	280	0.011	Y		
CBRN Radiological Detection Family of Systems (FoS)		2023	Visionary Products, Inc. / Draper, UT	MIPR	AFCEC	Sep 2023	Jan 2024	234	0.011	Y		
Tactical Communication Packages (Harris Equipment) <sup>(†)</sup>		2021	ADS / Tyndall AFB	MIPR	AFCEC	Aug 2021	Nov 2021	32	0.024	Y		
Tactical Communication Packages (Harris Equipment) <sup>(†)</sup>		2023	To Be Solicited / Multiple	MIPR	AFCEC	Jul 2023	Oct 2023	700	0.008	Y		
RADR Robotic Applique Kits		2023	To Be Solicited / Multiple	MIPR	AFCEC	Jul 2023	Jan 2024	241	0.177	Y		
RADR Water and Fuels Expedient Repair Kit (WaFERS)		2023	To Be Solicited / Multiple	MIPR	AFCEC	Jul 2023	Jan 2024	5	2.500	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment	<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force										<b>Date:</b> April 2021									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5					<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment										<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A 	Calendar Year 2021													Calendar Year 2022													
							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			
EOD X-Ray Hazard Diagnostic Systems																																	
1		2021	AF	314	0	314																											
EOD Unmanned Systems (Large)																																	
2		2021	AF	32	0	32																											
2		2022	AF	44	0	44																											
2		2023	AF	59	0	59																											
EOD Recovery of Airfield Denied By Ordnance (RADBO) system - RADR Family of Systems																																	
3		2023	AF	25	0	25																											
Rapid Airfield Damage Assessment Systems (Spiral 1)																																	
4		2022	AF	6	0	6																											
4		2023	AF	49	0	49																											
Rapid Explosive Hazard Mitigation (REHM) - Family of Systems (FoS)																																	
5		2022	AF	8	0	8																											
5		2023	AF	16	0	16																											
Tactical Communication Packages (Harris Equipment)																																	
6		2021	AF	32	0	32																											
7		2023	AF	700	0	700																											
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment	<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							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
EOD X-Ray Hazard Diagnostic Systems																															
	1	2021	AF	314	130	184	26	26	26	26	26	27	27																0		
EOD Unmanned Systems (Large)																															
	2	2021	AF	32	32	0																							0		
	2	2022	AF	44	0	44	-	-	-	-	-	4	8	8	8	8	8												0		
	2	2023	AF	59	0	59						A	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	3	0	
EOD Recovery of Airfield Denied By Ordnance (RADBO) system - RADR Family of Systems																															
	3	2023	AF	25	0	25																							7		
Rapid Airfield Damage Assessment Systems (Spiral 1)																															
	4	2022	AF	6	0	6	6																						0		
	4	2023	AF	49	0	49																							5	0	
Rapid Explosive Hazard Mitigation (REHM) - Family of Systems (FoS)																															
	5	2022	AF	8	0	8	8																						0		
	5	2023	AF	16	0	16																							0		
Tactical Communication Packages (Harris Equipment)																															
	6	2021	AF	32	32	0																							0		
	7	2023	AF	700	0	700																							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment	<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							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
EOD X-Ray Hazard Diagnostic Systems																															
1	2021	AF		314	314	0																							0		
EOD Unmanned Systems (Large)																															
2	2021	AF		32	32	0																							0		
2	2022	AF		44	44	0																							0		
2	2023	AF		59	59	0																							0		
EOD Recovery of Airfield Denied By Ordnance (RADBO) system - RADR Family of Systems																															
3	2023	AF		25	18	7	2	2	3																				0		
Rapid Airfield Damage Assessment Systems (Spiral 1)																															
4	2022	AF		6	6	0																							0		
4	2023	AF		49	49	0																							0		
Rapid Explosive Hazard Mitigation (REHM) - Family of Systems (FoS)																															
5	2022	AF		8	8	0																							0		
5	2023	AF		16	16	0																							0		
Tactical Communication Packages (Harris Equipment)																															
6	2021	AF		32	32	0																							0		
7	2023	AF		700	700	0																							0		



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845100 / Engineering and EOD Equipment	<b>Item Number / Title [DODIC]:</b> Engineering and EOD Equipment
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)									
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Vidisco USA - Arlington, VA	4	4	750	10	10	10	20	0	10	10	10	20	
2	L3 Harris - Palm Bay, FL	3	10	100	0	0	0	0	6	6	10	16		
3	Parsons - Huntsville, AL	2	2	50	10	10	6	16	0	0	0	0		
4	To Be Solicited - Tyndall AFB	4	50	100	10	10	3	13	0	0	0	0		
5	To Be Solicited - Tyndall AFB	2	2	20	0	0	0	0	10	10	3	13		
6	ADS - Tyndall AFB				0	0	0	0	0	0	0	0		
7	To Be Solicited - Multiple	100	150	2,000	10	10	3	13	0	0	0	0		

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	51.960	63.814	28.758	-	28.758	100.374	106.999	86.433	89.381	-	527.719
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	51.960	63.814	28.758	-	28.758	100.374	106.999	86.433	89.381	-	527.719
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>51.960</b>	<b>63.814</b>	<b>28.758</b>	-	<b>28.758</b>	<b>100.374</b>	<b>106.999</b>	<b>86.433</b>	<b>89.381</b>	-	<b>527.719</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

FY 21 funding: totals include 33.694M appropriated for Overseas Contingency Operations  
 FY22 funding: totals include 43.024M requested for Enduring Requirements  
 FY23 funding: 39.521M of EDI Procurement funding was taken by SAF/FM per direction of OSD

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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment		<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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.</p> <p>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.</p> <p>Hygiene: Hygiene includes Shower, Shave and Latrine, WH-400 water heaters for initial Hygiene fielding and Self Help Laundry system which provides personal hygiene facilities in support of BEAR bases.</p> <p>Shelters: Shelters vary in sizes and are needed for billeting, kitchen, hygiene, and aircraft and equipment maintenance. Includes lighting, electrical equipment, environmental control units, remote area lighting, Shelter Flies, Shelter Flooring/matting for various shelter sizes, Shelter liners.</p> <p>Feeding: BEAR Feeding includes kitchen and all applicable equipment. BEAR Feeding system provides the capability to prepare, and then serve, 500 meals over a two hour serving period, twice per day (24 hour period). The Feeding system is worldwide deployable and supports numerous basing options. This system supports initial mission requirements and follow-on high mobility feeding requirements for rapidly deployable mobility packages and other contingencies in all theaters of operation.</p> <p>Heating, Ventilating, and Air Conditioning (HVAC): provide thermal comfort and acceptable indoor air quality.</p> <p>Environmental Control Unit (ECU): Heat Pump to provide cooling, heating via reversing valve (heat pump) and supplemental heat via resistance heat strips.</p> <p>Training/Multi-Media Training - Provides BEAR and items for all training sites and funds for all required BEAR multi-media training requirements.</p> <p>This requirement (or modification) 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 0401135F</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Mobility Equipment	P-5a, P-21	A		- / -	- / 51.960	- / 63.814	- / 28.758	- / -	- / 28.758
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 51.960</b>	<b>- / 63.814</b>	<b>- / 28.758</b>	<b>- / -</b>	<b>- / 28.758</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2023 procurement dollars in the amount of 28.758M will procure equipment in support of, but not limited to AFCENT, 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.

Currently the WRM BEAR portfolio has greater than ~1.2 Billion dollars in Force Generation Set capabilities that are vacant, based on the planned program funding in the out years it will take more than 15 years to fill these vacant authorizations. Past and any present funding offsets will further delay filling these critical assets required by the COCOM's to meet their operational mission objectives.

Significantly impacts both StT and ACE initiatives.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>											<b>Date:</b> April 2021								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment					<b>Item Number / Title [DODIC]:</b> Mobility Equipment								
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A											<b>MDAP/MAIS Code:</b>								
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total										
Procurement Quantity (Units in Each)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)				-	51.960	63.814	28.758	-	-	-	-	-	-	-	-	-	-	28.758	
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)				-	51.960	63.814	28.758	-	-	-	-	-	-	-	-	-	-	28.758	
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>51.960</b>	<b>63.814</b>	<b>28.758</b>	-	-	-	-	-	-	-	-	-	-	<b>28.758</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares (\$ in Millions)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Mobility Equipment Cost</b>																		
<b>Recurring Cost</b>																		
BASE LIGHTING	-	-	31,000.00	31	0.961	44,000.00	12	0.528	34,000.00	49	1.666	-	-	-	34,000.00	49	1.666	-
BEAR High Power (BPU) <sup>(†)</sup>	-	-	779,000.00	9	7.011	750,000.00	3	2.250	818,000.00	9	7.362	-	-	-	818,000.00	9	7.362	-
AIRFIELD LIGHTING	-	-	1,721K	16	27.536	1,357K	12	16.284	2,100K	1	2.100	-	-	-	2,100K	1	2.100	-
HYGIENE	-	-	-	-	-	422,000.00	4	1.688	446,000.00	2	0.892	-	-	-	446,000.00	2	0.892	-
WATER PRODUCTION	-	-	308,000.00	3	0.924	324,000.00	1	0.324	296,000.00	8	2.368	-	-	-	296,000.00	8	2.368	-
FEEDING	-	-	295,000.00	8	2.360	259,000.00	3	0.777	-	-	-	-	-	-	-	-	-	-
MOBILE AIRCRAFT ARRESTING SYSTEM	-	-	261,000.00	3	0.783	657,000.00	30	19.710	4,000K	1	4.000	-	-	-	4,000K	1	4.000	-
POWER PRODUCTION	-	-	24,000.00	156	3.744	23,000.00	159	3.657	20,000.00	72	1.440	-	-	-	20,000.00	72	1.440	-
SHELTERS	-	-	300,000.00	19	5.700	50,000.00	160	8.000	135,000.00	14	1.890	-	-	-	135,000.00	14	1.890	-
ENVIRONMENTAL <sup>(†)</sup>	-	-	7,000.00	154	1.078	13,000.00	667	8.671	22,000.00	246	5.412	-	-	-	22,000.00	246	5.412	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	50.097	-	-	61.889	-	-	27.130	-	-	-	-	-	27.130
<i>Subtotal: Hardware - Mobility Equipment Cost</i>	-	-	-	-	-	<b>50.097</b>	-	-	<b>61.889</b>	-	-	<b>27.130</b>	-	-	-	-	-	<b>27.130</b>
<b>Support - Mobility Equipment Cost</b>																		
PMA-CONTRACTOR SERVICES	-	-	597,000.00	1	0.597	1,020K	1	1.020	1,198K	1	1.198	-	-	-	1,198K	1	1.198	-
TRANSPORTATION	-	-	633,000.00	2	1.266	5,000.00	181	0.905	5,000.00	86	0.430	-	-	-	5,000.00	86	0.430	-

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Air Force												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment						<b>Item Number / Title [DODIC]:</b> Mobility Equipment					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Mobility Equipment Cost</i>	-	-	-	-	-	1.863	-	-	1.925	-	-	1.628	-	-	-	-	-	1.628
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	51.960	-	-	63.814	-	-	28.758	-	-	-	-	-	28.758

**Remarks:**

Unit Costs for FY23 are assumed and subject to change.

Procurement of the Mobile Aircraft Arresting System has been pushed to the right due to delay in contract award at AFLCMC/WNZ: ~\$10M in funding was moved to expedite the procurement of the Expeditionary Airfield Lighting system

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.

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment	<b>Item Number / Title [DODIC]:</b> Mobility Equipment
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
BEAR High Power (BPU)		2021	Cummins / Wisconsin	MIPR	AFLCMC/WN - Agile Combat Systems	Jan 2021	May 2021	9	779,000.00	Y		
BEAR High Power (BPU)		2022	Cummins / Wisconsin	MIPR	AFLCMC/WN - Agile Combat Systems	Dec 2021	Oct 2022	3	750,000.00	Y		
BEAR High Power (BPU) <sup>(†)</sup>		2023	Cummins / Wisconsin	MIPR	AFLCMC/WN - Agile Combat Systems	Oct 2022	Mar 2023	9	818,000.00	Y		
ENVIRONMENTAL		2021	Darley / Illinois	MIPR	AFLCMC/WN - Agile Combat Systems	Jun 2021	Aug 2021	154	7,000.00	Y		
ENVIRONMENTAL		2022	Darley / Illinois	MIPR	AFLCMC/WN - Agile Combat Systems	Jan 2022	Apr 2022	667	13,000.00	Y		
ENVIRONMENTAL <sup>(†)</sup>		2023	Darley / Illinois	MIPR	AFLCMC/WN - Agile Combat Systems	Oct 2022	Dec 2022	246	22,000.00	Y		

<sup>(†)</sup> indicates the presence of a P-21



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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment	<b>Item Number / Title [DODIC]:</b> Mobility Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A 	Calendar Year 2021												Calendar Year 2022												
							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
BEAR High Power (BPU)																															
	1	2023	AF		9	0	9																						9		
ENVIRONMENTAL																															
	2	2023	AF		246	0	246																						246		
								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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment	<b>Item Number / Title [DODIC]:</b> Mobility Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														B A L A N C E																	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 2	BAL D U E A S O F 1 O C T	Calendar Year 2023														Calendar Year 2024																														
							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																					
BEAR High Power (BPU)																																																			
1	2023	AF		9	0	9	A	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0																						
ENVIRONMENTAL																																																			
2	2023	AF		246	0	246	A	-	-	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	0																							
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																												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
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force	<b>Date:</b> April 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment	<b>Item Number / Title [DODIC]:</b> Mobility Equipment
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Cummins - Wisconsin	2	3	36	0	0	0	0	6	1	5	6
2	Darley - Illinois	100	100	1,200	0	0	0	0	2	1	2	3

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	11.378	17.928	21.740	-	21.740	31.377	16.326	26.757	27.500	-	153.006
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	11.378	17.928	21.740	-	21.740	31.377	16.326	26.757	27.500	-	153.006
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>11.378</b>	<b>17.928</b>	<b>21.740</b>	-	<b>21.740</b>	<b>31.377</b>	<b>16.326</b>	<b>26.757</b>	<b>27.500</b>	-	<b>153.006</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

FY20 funding totals include 4.044M appropriated for Overseas Contingency Operations (EDI)  
 FY21 funding totals include 1.777M appropriated for Overseas Contingency Operations (EDI)  
 FY22 funding totals include 7.993M appropriated for Overseas Contingency Operations (EDI)  
 FY23 13.322M appropriated for Overseas Contingency Operations(EDI) was taken by SAF/FM per direction of OSD

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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment		<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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 &amp; 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>Operational FSE Funding (NON WRM ASSETS) is a new start in FY23.</p> <p>Funding for this exhibit contained in PE 028031F.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Fuels Support Equipment (FSE)	P-5a, P-21	A		- / -	- / 11.378	- / 17.928	- / 21.740	- / -	- / 21.740
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 11.378</b>	<b>- / 17.928</b>	<b>- / 21.740</b>	<b>- / -</b>	<b>- / 21.740</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY23 procurement dollars in the amount of 10.102M Base and 0M EDI Enduring Requirements, 8.538M for PDI and 3.100M Operational FSE Base will combine for a total of 21.74M. This will procure equipment in support of, but not limited to, AFCENT. 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.

Currently the WRM FSE/FORCE portfolio has greater than 150M in Force Generation Set capabilities that are vacant, based on the planned program funding in the out years it will take more than 15 years to fill these vacant authorizations. Past and any present funding offsets will further delay filling these critical assets required by the COCOM's to meet their operational mission objectives.

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**Exhibit P-5, Cost Analysis: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)	<b>Item Number / Title [DODIC]:</b> Fuels Support Equipment (FSE)
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	11.378	17.928	21.740	-	21.740
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	11.378	17.928	21.740	-	21.740
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>11.378</b>	<b>17.928</b>	<b>21.740</b>	-	<b>21.740</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Fuels Support Equipment (FSE) Cost</b>																		
Recurring Cost																		
FORCE SERVICING (FS,RC,SC)	-	-	-	0.214	28	5.992	0.150	7	1.050	0.296	5	1.480	-	-	-	0.296	5	1.480
FUEL STORAGE BLADDERS	-	-	-	0.032	66	2.112	0.041	198	8.118	0.053	115	6.095	-	-	-	0.053	115	6.095
AERIAL BULK FUEL DELIVERY SYSTEM (ABFDS)	-	-	-	-	-	-	0.750	9	6.750	2.000	1	2.000	-	-	-	2.000	1	2.000
CRYOGENICS (LOX/LIN TANKS)	-	-	-	0.285	7	1.995	0.150	3	0.450	-	-	-	-	-	-	-	-	-
FUELS PUMPING & DISTRIBUTION <sup>(†)</sup>	-	-	-	0.357	2	0.714	0.250	2	0.500	0.400	9	3.600	-	-	-	0.400	9	3.600
FSE LAB EQUIPMENT	-	-	-	-	-	-	0.005	20	0.100	0.030	4	0.120	-	-	-	0.030	4	0.120
OPERATIONAL FSE FUNDING (NON-WRM ASSETS)	-	-	-	-	-	-	-	-	-	3.100	1	3.100	-	-	-	3.100	1	3.100
All Terrain Berm Storage System	-	-	-	-	-	-	-	-	-	0.063	69	4.347	-	-	-	0.063	69	4.347
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>10.813</i>	-	-	<i>16.968</i>	-	-	<i>20.742</i>	-	-	-	-	-	<i>20.742</i>
<i>Subtotal: Hardware - Fuels Support Equipment (FSE) Cost</i>	-	-	-	-	-	<i>10.813</i>	-	-	<i>16.968</i>	-	-	<i>20.742</i>	-	-	-	-	-	<i>20.742</i>
<b>Support - Fuels Support Equipment (FSE) Cost</b>																		



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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)						<b>Item Number / Title [DODIC]:</b> Fuels Support Equipment (FSE)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
PMA OTHER GOVERNMENT CHARGES (FORCE)	-	-	-	0.391	1	0.391	-	-	-	-	-	-	-	-	-	-	-	-
PMA OTHER CONTRACTOR SERVICES (FORCE)	-	-	-	0.026	1	0.026	0.515	1	0.515	0.698	1	0.698	-	-	-	0.698	1	0.698
TRANSPORTATION MOORD	-	-	-	0.074	2	0.148	0.005	89	0.445	0.005	60	0.300	-	-	-	0.005	60	0.300
<i>Subtotal: Support - Fuels Support Equipment (FSE) Cost</i>	-	-	-	-	-	<b>0.565</b>	-	-	<b>0.960</b>	-	-	<b>0.998</b>	-	-	-	-	-	<b>0.998</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>11.378</b>	-	-	<b>17.928</b>	-	-	<b>21.740</b>	-	-	-	-	-	<b>21.740</b>

**Remarks:**

13.322M to procure Fuels Support equipment in support of European Deterrence Initiative (EDI) were taken by SAF/FM per direction of OSD.

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.

Funding increased by 8M in FY23 and 8.546M in FY24 for the pacific theater.

FY21 funding was realigned to procure FORCE equipment after the AFPET Fuels FAM pulled the plug on the current contracting efforts for a new ABFDS, AFPET has submitted Requirements Documents to AFLCMC/WNZ for the procurement of a new redesigned system that better meets the changing requirements of the COCOM's.

FY22 Funding that was planned for the ABFDS procurement will be moved to procure needed requirements for both FORCE and bladders.

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)	<b>Item Number / Title [DODIC]:</b> Fuels Support Equipment (FSE)
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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
FUELS PUMPING & DISTRIBUTION <sup>(†)</sup>		2021	DLA / Virginia	MIPR	AFLCMC/WN - Agile Combat Systems	Sep 2021	Dec 2021	2	0.357	Y		Jan 2021
FUELS PUMPING & DISTRIBUTION <sup>(†)</sup>		2022	DLA / Virginia	MIPR	AFLCMC/WN - Agile Combat Systems	Jun 2022	Sep 2022	2	0.250	Y		Jan 2022
FUELS PUMPING & DISTRIBUTION <sup>(†)</sup>		2023	DLA / Virginia	MIPR	AFLCMC/WN - Agile Combat Systems	May 2023	Sep 2023	9	0.400	Y		Jan 2023

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2023 Air Force **Date:** April 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845550 / Fuels Support Equipment (FSE) **Item Number / Title [DODIC]:** Fuels Support Equipment (FSE)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022										BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022										
							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
FUELS PUMPING & DISTRIBUTION																															
1		2021	AF	2	0	2																							A - - - 2		0
1		2022	AF	2	0	2																							A - - - 2		0
1		2023	AF	9	0	9																									9
							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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)	<b>Item Number / Title [DODIC]:</b> Fuels Support Equipment (FSE)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
FUELS PUMPING & DISTRIBUTION																																	
	1	2021	AF	2	2	0																							0				
	1	2022	AF	2	2	0																							0				
	1	2023	AF	9	0	9											A	-	-	-	-	9							0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force								<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5				<b>P-1 Line Item Number / Title:</b> 845550 / Fuels Support Equipment (FSE)				<b>Item Number / Title [DODIC]:</b> Fuels Support Equipment (FSE)				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	DLA - Virginia			100	0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	72.444	39.067	40.656	-	40.656	51.773	54.284	49.016	50.092	-	357.332
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	72.444	39.067	40.656	-	40.656	51.773	54.284	49.016	50.092	-	357.332
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>72.444</b>	<b>39.067</b>	<b>40.656</b>	-	<b>40.656</b>	<b>51.773</b>	<b>54.284</b>	<b>49.016</b>	<b>50.092</b>	-	<b>357.332</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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); High-Line Docks; Flight Line Fire Extinguishers; Cargo Pallet and Net systems; Small Munition Trailers; 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.

Small Munitions Trailers and Base Support Equipment are FY23 new starts.

Funding for this exhibit contained in the following program elements: 0101110F, 0207521F, 0202834F, 0502834F, 0502844F, 0802834F.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	70.811	37.419	38.868	-	38.868	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F
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**Line Item MDAP/MAIS Code:** N/A

	<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.536	1.550	1.681	-	1.681	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.097	0.098	0.107	-	0.107	-	-	-	-
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>72.444</b>	<b>39.067</b>	<b>40.656</b>	-	<b>40.656</b>	-	-	-	-



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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:** 0202834F

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	Base Maintenance and Support Equipment	P-5a, P-21	A		- / -	- / 72.444	- / 39.067	- / 40.656	- / -	- / 40.656
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 72.444</b>	<b>- / 39.067</b>	<b>- / 40.656</b>	<b>- / -</b>	<b>- / 40.656</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY23 will procure the following:

**Cargo Pallets and Nets (SE&V):**

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 (SE&V):**

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.

**Tools and Industrial Plant Equipment (SE&V):**

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) (AFMETCAL):**

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.

**Base and Aircraft Arresting Systems (B&AAS) (SEV)**

This program consists of 221 different National Stock Numbers. The 150 Lb Wheeled Flightline Fire Extinguishers are used in support of all weapon system MDS', and other base operational support areas. Aircraft Arresting Systems are used in support of tail-hook equipped fighter aircraft and a few trainer aircraft such as the F-15, F-16, F22, F-35, T-1, and T-38, and additionally support all DoD, NATO, and Allied Partner tail-hook equipped fighter aircraft during an aborted take-off or in-flight-emergency. Gravity rollers (highline docks) support aerial port operations for storing palletized cargo downloaded from C-5, C-17, C-130, KC-10, and KC-135 aircraft, and are used to stage palletized cargo for upload on the same MDS'. The picket boats, utility boats, passenger and cargo boats, reconnaissance boats, cargo barges, harbor tugs, personnel boats, canoes, cutter boats, air boats, and assault boats support Coast Guard, DEA other maritime operations. Military working dogs are critical to personnel and equipment safety and security at home station and deployed locations. The restricted area anti-intrusion alarms are critical to secure classified and top secret items in storage. The automatic gas alarms and safety level indicators ensure personnel survival in hazardous work areas. The forced entry and rescue equipment are vital to excavating personnel in accidents. The industrial safety lanyards and industrial safety harness' protect personnel while performing dangerous, but necessary operations while working on aircraft, buildings, or flying in an HH-60. Additional items in this bucket of NSNs include hydraulic rescue and salvaging kit, environmental

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment		<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F
<b>Line Item MDAP/MAIS Code:</b> N/A		
fuel tank seal kit (600 GAL), telephone terminal receivers, hand trucks, portable bleachers, self-contained breathing apparatus', prefabricated revetment, oxygen deficiency indicators, high pressure storage tanks, jet skis, diving equipment, portable run fences, concrete vibrators, concrete saws, pipeline repair kits, concrete mixing plants and mine detecting sets. The items in this portfolio are critical to all base and forward deployed operations during peace time and war time.		
Other Base Maint & SE : Paint Booth/Air Compressor for LO Restoration Facility; Compressed Air Eq for Wash Rack Facility; Uninterrupted Power Supply(UPS) for A/C Maint Unit Facility for B-21		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>													<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment						<b>Item Number / Title [DODIC]:</b> Base Maintenance and Support Equipment						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	
Procurement Quantity (Units in Each)				-		-			-			-			-		-	
Gross/Weapon System Cost (\$ in Millions)				-		72.444			39.067			40.656			-		40.656	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				-		72.444			39.067			40.656			-		40.656	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				-		<b>72.444</b>			<b>39.067</b>			<b>40.656</b>			-		<b>40.656</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Millions)				-		-			-			-			-		-	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - B-21 Cost																		
Recurring Cost																		
Paint Booth <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1.000	1	1.000	-	-	-	1.000	1	1.000
Compressed Air Equipment <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.573	1	0.573	-	-	-	0.573	1	0.573
Air Compressor <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.573	1	0.573	-	-	-	0.573	1	0.573
Uninterrupted Power Supply <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.573	1	0.573	-	-	-	0.573	1	0.573
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.719	-	-	-	-	-	2.719
<i>Subtotal: Hardware - B-21 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.719	-	-	-	-	-	2.719
Hardware - Base Logistics Support Equipment Cost																		
Recurring Cost																		
AF <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1.331	1	1.331	-	-	-	1.331	1	1.331
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.331	-	-	-	-	-	1.331
<i>Subtotal: Hardware - Base Logistics Support Equipment Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.331	-	-	-	-	-	1.331
Hardware - Calibration Equipment Cost																		
Recurring Cost																		
AFMETCAL <sup>(†)</sup>	-	-	-	13.979	1	13.979	-	-	13.835	13.321	1	13.321	-	-	-	13.321	1	13.321

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>												<b>Date:</b> April 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment						<b>Item Number / Title [DODIC]:</b> Base Maintenance and Support Equipment					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ANG	-	-	-	-	-	1.536	-	-	1.550	-	-	0.681	-	-	-	-	-	0.681
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	15.515	-	-	15.385	-	-	14.002	-	-	-	-	-	14.002
<i>Subtotal: Hardware - Calibration Equipment Cost</i>	-	-	-	-	-	15.515	-	-	15.385	-	-	14.002	-	-	-	-	-	14.002
<b>Hardware - MHU-110/141 Cost</b>																		
Recurring Cost																		
AF	-	-	-	-	-	12.482	-	-	1.250	-	-	7.504	-	-	-	-	-	7.504
European Deterrence Initiative	-	-	-	-	-	3.000	-	-	8.499	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	15.482	-	-	9.749	-	-	7.804	-	-	-	-	-	7.804
<i>Subtotal: Hardware - MHU-110/141 Cost</i>	-	-	-	-	-	15.482	-	-	9.749	-	-	7.804	-	-	-	-	-	7.804
<b>Hardware - Pallet &amp; Net Cost</b>																		
Recurring Cost																		
Legacy Pallet	-	-	-	-	-	24.984	-	-	8.359	-	-	8.253	-	-	-	-	-	8.253
Top Net	-	-	-	-	-	4.902	-	-	1.640	-	-	1.619	-	-	-	-	-	1.619
Low Profile Net	-	-	-	-	-	11.464	-	-	3.836	-	-	3.787	-	-	-	-	-	3.787
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	41.350	-	-	13.835	-	-	13.659	-	-	-	-	-	13.659
<i>Subtotal: Hardware - Pallet &amp; Net Cost</i>	-	-	-	-	-	41.350	-	-	13.835	-	-	13.659	-	-	-	-	-	13.659
<b>Hardware - Tools and Industrial Plant Equipment Cost</b>																		
Recurring Cost																		
AFR	-	-	-	-	-	0.097	-	-	0.098	-	-	0.107	-	-	-	-	-	0.107
ANG	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.097	-	-	0.098	-	-	1.107	-	-	-	-	-	1.107
<i>Subtotal: Hardware - Tools and Industrial Plant Equipment Cost</i>	-	-	-	-	-	0.097	-	-	0.098	-	-	1.107	-	-	-	-	-	1.107
<b>Support - MHU-110/141 PMA Cost</b>																		
Other Government Charges	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - MHU-110/141 PMA Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
<b>Support - Pallet &amp; Net PMA Cost</b>																		
Other Government Charges	-	-	-	-	-	-	-	-	-	-	-	0.014	-	-	-	-	-	0.014

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<b>Exhibit P-5, Cost Analysis: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment	<b>Item Number / Title [DODIC]:</b> Base Maintenance and Support Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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: Support - Pallet &amp; Net PMA Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.014	-	-	-	-	-	0.014
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	72.444	-	-	39.067	-	-	40.656	-	-	-	-	-	40.656

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	70.811	37.419	38.868	-	38.868
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	1.536	1.550	1.681	-	1.681
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	0.097	0.098	0.107	-	0.107
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>72.444</b>	<b>39.067</b>	<b>40.656</b>	-	<b>40.656</b>

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Air Force							<b>Date:</b> April 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5			<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment				<b>Item Number / Title [DODIC]:</b> Base Maintenance and Support Equipment				

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
Paint Booth <sup>(†)</sup>		2023	TBD / TBD	TBD	AFGSC	Mar 2023	Aug 2023	1	1.000	Y		Jan 2023
Compressed Air Equipment <sup>(†)</sup>		2023	TBD / TBD	TBD	AFGSC	Mar 2023	Aug 2023	1	0.573	Y		Jan 2023
Air Compressor <sup>(†)</sup>		2023	TBD / TBD	TBD	AFGSC	Mar 2023	Aug 2023	1	0.573	Y		Jan 2023
Uninterrupted Power Supply <sup>(†)</sup>		2023	TBD / TBD	TBD	AFGSC	Mar 2023	Aug 2023	1	0.573	Y		Jan 2023
AF <sup>(†)</sup>		2023	TBD / TBD	TBD	WR/ALC	Mar 2023	Aug 2023	1	1.331	Y		Feb 2023
AFMETCAL <sup>(†)</sup>		2021	TBD / TBD	TBD	WR/ALC	May 2021	Sep 2021	1	13.979	Y		Mar 2021
AFMETCAL <sup>(†)</sup>		2023	TBD / TBD	TBD	WR/ALC	Mar 2023	Aug 2023	1	13.321	Y		Jan 2023

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force																				<b>Date:</b> April 2021						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5										<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment										<b>Item Number / Title [DODIC]:</b> Base Maintenance and Support Equipment						

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														B A L A N C E
O C C #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
						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					
Paint Booth																																		
1	2023	AF	1	0	1																								1					
Compressed Air Equipment																																		
2	2023	AF	1	0	1																								1					
Air Compressor																																		
3	2023	AF	1	0	1																								1					
Uninterrupted Power Supply																																		
4	2023	AF	1	0	1																								1					
AF																																		
5	2023	AF	1	0	1																								1					
AFMETCAL																																		
6	2021	AF	1	0	1										A	-	-	-	-										0					
6	2023	AF	1	0	1																								1					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force															<b>Date:</b> April 2021														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5										<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment										<b>Item Number / Title [DODIC]:</b> Base Maintenance and Support Equipment									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE
O C O #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
						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	
Paint Booth																														
1	2023	AF	1	0	1																								0	
Compressed Air Equipment																														
2	2023	AF	1	0	1																								0	
Air Compressor																														
3	2023	AF	1	0	1																								0	
Uninterrupted Power Supply																														
4	2023	AF	1	0	1																								0	
AF																														
5	2023	AF	1	0	1																								0	
AFMETCAL																														
6	2021	AF	1	1	0																								0	
6	2023	AF	1	0	1																								0	



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5		<b>P-1 Line Item Number / Title:</b> 845990 / Base Maintenance and Support Equipment
<b>Item Number / Title [DODIC]:</b> Base Maintenance and Support Equipment		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TBD - TBD			100	0	6	5	11	0	0	0	0
2	TBD - TBD			100	0	6	5	11	0	0	0	0
3	TBD - TBD			100	0	6	5	11	0	0	0	0
4	TBD - TBD			100	0	6	5	11	0	0	0	0
5	TBD - TBD			100	0	6	5	11	0	0	0	0
6	TBD - TBD			100	0	0	0	0	0	6	5	11

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305207F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	153.986	27.164	27.359	28.153	-	28.153	28.798	29.430	30.319	30.987	-	356.196
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	153.986	27.164	27.359	28.153	-	28.153	28.798	29.430	30.319	30.987	-	356.196
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>153.986</b>	<b>27.164</b>	<b>27.359</b>	<b>28.153</b>	<b>-</b>	<b>28.153</b>	<b>28.798</b>	<b>29.430</b>	<b>30.319</b>	<b>30.987</b>	<b>-</b>	<b>356.196</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

RC-135 procurement is executed by the Big Safari RC-135 Program Manager 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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305207F
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-3a	1 / DARP Modification (Capability Improvement)		A		- / 153.986	- / 27.164	- / 27.359	- / 28.153	- / 0.000	- / 28.153
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 153.986</b>	<b>- / 27.164</b>	<b>- / 27.359</b>	<b>- / 28.153</b>	<b>- / -</b>	<b>- / 28.153</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-3a	1 / DARP Modification (Capability Improvement)		A		- / 28.798	- / 29.430	- / 30.319	- / 30.987	- / -	- / 356.196
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 28.798</b>	<b>- / 29.430</b>	<b>- / 30.319</b>	<b>- / 30.987</b>	<b>- / -</b>	<b>- / 356.196</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY23 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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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135	<b>Modification Number / Title:</b> 1 / DARP Modification

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	153.986	27.164	27.359	28.153	0.000	28.153	28.798	29.430	30.319	30.987	-	356.196
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	153.986	27.164	27.359	28.153	0.000	28.153	28.798	29.430	30.319	30.987	-	356.196
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>153.986</b>	<b>27.164</b>	<b>27.359</b>	<b>28.153</b>	<b>0.000</b>	<b>28.153</b>	<b>28.798</b>	<b>29.430</b>	<b>30.319</b>	<b>30.987</b>	-	<b>356.196</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

RC-135 procurement is executed by the Big Safari RC-135 Program Manager 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.

FY23 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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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>											<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6				<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135				<b>Modification Number / Title:</b> 1 / DARP Modification				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> RC-135			<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0305207F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> BL Ground Systems												
A Kits												
Recurring												
BL Ground Systems:INSTALL KITS Group A (Active)	5 / 117.567	1 / 19.722	1 / 19.783	1 / 20.342	- / -	1 / 20.342	1 / 20.806	1 / 21.267	1 / 21.935	1 / 22.437	- / -	12 / 263.859
<i>Subtotal: Recurring</i>	- / 117.567	- / 19.722	- / 19.783	- / 20.342	- / -	- / 20.342	- / 20.806	- / 21.267	- / 21.935	- / 22.437	- / -	- / 263.859
B Kits												
Recurring												
BL Ground Systems:EQUIPMENT Group B (Active)	5 / 31.059	1 / 6.370	1 / 6.485	1 / 6.686	- / -	1 / 6.686	1 / 6.841	1 / 6.987	1 / 7.176	1 / 7.319	- / -	12 / 78.923
<i>Subtotal: Recurring</i>	- / 31.059	- / 6.370	- / 6.485	- / 6.686	- / -	- / 6.686	- / 6.841	- / 6.987	- / 7.176	- / 7.319	- / -	- / 78.923
<i>Subtotal: BL Ground Systems</i>	- / 148.626	- / 26.092	- / 26.268	- / 27.028	- / -	- / 27.028	- / 27.647	- / 28.254	- / 29.111	- / 29.756	- / -	- / 342.782
<i>Subtotal: Procurement, All Modification Items</i>	- / 148.626	- / 26.092	- / 26.268	- / 27.028	- / -	- / 27.028	- / 27.647	- / 28.254	- / 29.111	- / 29.756	- / -	- / 342.782
<b>Installation</b>												
<i>Modification Item 1 of 1:</i> BL Ground Systems												
	5 / 5.360	1 / 1.072	1 / 1.091	1 / 1.125	- / -	1 / 1.125	1 / 1.151	1 / 1.176	1 / 1.208	1 / 1.231	- / -	12 / 13.414
<i>Subtotal: Installation</i>	5 / 5.360	1 / 1.072	1 / 1.091	1 / 1.125	- / -	1 / 1.125	1 / 1.151	1 / 1.176	1 / 1.208	1 / 1.231	- / -	12 / 13.414
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>153.986</b>	<b>27.164</b>	<b>27.359</b>	<b>28.153</b>	<b>0.000</b>	<b>28.153</b>	<b>28.798</b>	<b>29.430</b>	<b>30.319</b>	<b>30.987</b>	<b>-</b>	<b>356.196</b>

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**Exhibit P-3a, Individual Modification: PB 2023 Air Force** **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135	<b>Modification Number / Title:</b> 1 / DARP Modification
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

**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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Dec 2020	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates	Jun 2021	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	Jun 2027

**Installation Information**

**Method of Implementation:** Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 5.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.360
FY 2021	- / -	1 / 1.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.072
FY 2022	- / -	- / -	1 / 1.091	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.091
FY 2023	- / -	- / -	- / -	1 / 1.125	- / -	1 / 1.125	- / -	- / -	- / -	- / -	- / -	1 / 1.125
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.151	- / -	- / -	- / -	- / -	1 / 1.151
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.176	- / -	- / -	- / -	1 / 1.176
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.208	- / -	- / -	1 / 1.208
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.231	- / -	1 / 1.231
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	5 / 5.360	1 / 1.072	1 / 1.091	1 / 1.125	- / -	1 / 1.125	1 / 1.151	1 / 1.176	1 / 1.208	1 / 1.231	- / -	12 / 13.414

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	0	12
Out	5	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	0	12

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0305208F, 0305240F	<b>Other Related Program Elements:</b> 0305208F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	140.228	261.070	217.713	-	217.713	206.658	67.570	104.607	174.313	-	1,172.159
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	140.228	261.070	217.713	-	217.713	206.658	67.570	104.607	174.313	-	1,172.159
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>140.228</b>	<b>261.070</b>	<b>217.713</b>	-	<b>217.713</b>	<b>206.658</b>	<b>67.570</b>	<b>104.607</b>	<b>174.313</b>	-	<b>1,172.159</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Air Force Distributed Common Ground System (AF DCGS) is the Combat Air Force (CAF) weapon system for planning, direction, collection, processing, exploitation, production, dissemination, and problem centric, sensor-agnostic analysis of data. AF DCGS weapon system provides capabilities required to connect, direct and exploit sensors and transform multi-source/multi-domain data into actionable intelligence to find, fix, and target adversary forces and shorten the kill chain. 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, and a key provider/consumer of the sensing grid and Joint All Domain C2 (JADC2) & Advanced Battle Management System (ABMS) Efforts. 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 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 serves as the main "Sense-Making organization within the Air Force ISR Sensing Grid and has access to a multitude of sensors and data across the Intelligence Community, to include publicly available information (PAI). AF DCGS Analysts leverage Artificial Intelligence (AI)/Machine Learning (ML), Automation, Augmentation (AAA) technologies to focus their search for multi-source/multi-domain intelligence across the tactical/national sensor grid and within federated databases to enable target and problem centric, sensor-agnostic analysis and exploitation to address Joint operational requirements by providing a common means to provide 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. The DCGS analysts use all available data source and emerging capabilities, including AAA to enhance their understanding of intelligence/targeting problem sets and provide the required intelligence.

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, one training site, 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 improved mission applications to meet emerging and urgent operational needs. AF DCGS is also aligned with USD(I)'s efforts to improve data sharing through its Common Data Fabric. 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. AF DCGS consists of a hybrid cloud (mix of private on-premise and public commercial cloud) architecture.

Program management consists of four ACAT III efforts: GEOINT Transformation, SIGINT Transformation, Multi-INT Infrastructure, and Network Infrastructure Transformation.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects		<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0305208F, 0305240F	<b>Other Related Program Elements:</b> 0305208F
<b>Line Item MDAP/MAIS Code:</b> N/A		

1. GEOINT Transformation: Rapidly integrates new and updated GEOINT capabilities (Commercial Off-The-Shelf(COTS)/Government Off-The-Shelf(GOTS) Hardware and Software), enables quick/seamless integration of new sensors, data types, sensor planning, and command and control (C2) capabilities into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.
  2. SIGINT Transformation: Rapidly integrates new and updated SIGINT capabilities (COTS/GOTS Hardware and Software), enables quick/seamless integration of new sensors, data types, sensor planning, command and control (C2) capabilities into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.
  3. Multi-INT Transformation: Rapidly integrates new and updated enterprise applications (COTS/GOTS Hardware and Software), to include voice and chat communications, collaboration and situational awareness, multi-INT fusion, and data analytics capabilities (to include Artificial Intelligence/Machine Learning AI/ML, Automation, and Augmentation (AAA)). 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. Rapidly integrates new and updated data exchange and interoperability capabilities in support of USD(I)'s Common Data Fabric (CDF) Initiative. Addresses program office test and evaluation activities
  4. Network Infrastructure Transformation: Continue to update 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. AF DCGS operates in hybrid cloud environment, consisting of on Open Architecture (OA) DCGS Platform as a Service, on-premise/private cloud portion and Virtual ISR Integration Enclave (VIZE) unclassified, Secret and Top Secret environment as the commercial/public cloud portion. Network infrastructure transformation also handles integration of additional line of site capabilities.
- 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.
- This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
- Program Management Administration (PMA): FY23 funding permits the Program Management Office (PMO) 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.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force** **Date:** April 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): B **Program Elements for Code B Items:** 0305208F, 0305240F **Other Related Program Elements:** 0305208F

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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 / DGS-5 (Hawaii) Upgrade (Reliability & Maintainability)		B		- / -	- / -	- / 9.700	- / 7.500	- / 0.000	- / 7.500
P-3a	2 / GEOINT Transformation (GEOINT) (Reliability & Maintainability)		B		- / -	- / 42.502	- / 37.399	- / 40.501	- / 0.000	- / 40.501
P-3a	3 / Signals Intelligence (SIGINT) (Reliability & Maintainability)		B		- / -	- / 35.189	- / 24.835	- / 27.228	- / 0.000	- / 27.228
P-3a	4 / Multi-Intelligence (Multi-INT) (Reliability & Maintainability)		B		- / -	- / 26.783	- / 41.244	- / 23.763	- / 0.000	- / 23.763
P-3a	5 / Network Infrastructure Transformation (Reliability & Maintainability)		B		- / -	- / 13.466	- / 23.118	- / 38.979	- / 0.000	- / 38.979
P-3a	1 / DCGS-AF (Reliability & Maintainability)		B		- / -	- / 22.288	- / 124.774	- / 79.742	- / 0.000	- / 79.742
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 140.228	- / 261.070	- / 217.713	- / -	- / 217.713

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / DGS-5 (Hawaii) Upgrade (Reliability & Maintainability)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 17.200
P-3a	2 / GEOINT Transformation (GEOINT) (Reliability & Maintainability)		B		- / 37.053	- / 9.368	- / 19.762	- / 71.460	- / -	- / 258.045
P-3a	3 / Signals Intelligence (SIGINT) (Reliability & Maintainability)		B		- / 37.772	- / 8.876	- / 18.203	- / 28.641	- / -	- / 180.744
P-3a	4 / Multi-Intelligence (Multi-INT) (Reliability & Maintainability)		B		- / 17.414	- / 7.409	- / 17.003	- / 23.727	- / -	- / 157.343
P-3a	5 / Network Infrastructure Transformation (Reliability & Maintainability)		B		- / 41.306	- / 8.683	- / 19.669	- / 19.855	- / -	- / 165.076
P-3a	1 / DCGS-AF (Reliability & Maintainability)		B		- / 73.113	- / 33.234	- / 29.970	- / 30.630	- / -	- / 393.751
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / 206.658	- / 67.570	- / 104.607	- / 174.313	- / -	- / 1,172.159

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 1 / DGS-5 (Hawaii) Upgrade

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	9.700	7.500	0.000	7.500	0.000	0.000	0.000	0.000	-	17.200
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	9.700	7.500	0.000	7.500	0.000	0.000	0.000	0.000	-	17.200
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	<b>9.700</b>	<b>7.500</b>	<b>0.000</b>	<b>7.500</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>17.200</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Funding supports the infrastructure and network upgrades necessary to maintain on-going operations at DGS-5 in Hawaii.

**Milestone/Development Status**

Funding supports the infrastructure and network upgrades necessary to maintain on-going operations at DGS-5 in Hawaii and will be completed in the last year of funding.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6					<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF					<b>Modification Number / Title:</b> 1 / DGS-5 (Hawaii) Upgrade			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> 0305208				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b> 0305208F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> DGS- 5 HAWAII Upgrade													
B Kits													
Recurring													
DGS- 5 HAWAII Upgrade:EQUIPMENT Group B (Active)	- / -	- / -	- / 9.700	- / 7.500	- / -	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 17.200	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 9.700	- / 7.500	- / -	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 17.200	
<i>Subtotal: DGS- 5 HAWAII Upgrade</i>	- / -	- / -	- / 9.700	- / 7.500	- / -	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 17.200	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 9.700	- / 7.500	- / -	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 17.200	
<b>Installation</b>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	9.700	7.500	0.000	7.500	0.000	0.000	0.000	0.000	-	17.200	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force						<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF			<b>Modification Number / Title:</b> 1 / DGS-5 (Hawaii) Upgrade	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 1:</b> DGS- 5 HAWAII Upgrade							
<b>Manufacturer Information</b>							
Manufacturer Name: VARIOUS				Manufacturer Location: Hawaii			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates							
Delivery Dates							
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 2 / GEOINT Transformation (GEOINT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	42.502	37.399	40.501	0.000	40.501	37.053	9.368	19.762	71.460	-	258.045
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	42.502	37.399	40.501	0.000	40.501	37.053	9.368	19.762	71.460	-	258.045
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>42.502</b>	<b>37.399</b>	<b>40.501</b>	<b>0.000</b>	<b>40.501</b>	<b>37.053</b>	<b>9.368</b>	<b>19.762</b>	<b>71.460</b>	-	<b>258.045</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

GEOINT Transformation: Rapidly integrates new and updated GEOINT capabilities (COTS/GOTS Hardware and Software), enables quick/seamless integration of new sensors, data types, sensor planning, and command and control (C2) capabilities into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

Justification: FY23 funding will

- Procure, integrate and field GEOINT sensor/sensor modes into command and control (C2), workflow and exploitation processes (i.e. Advanced Synthetic Aperture Radar System (ASARS) 2C)
- Procure, integrate and field Enterprise Collection Planner (ECP) Sensor Command and Control (C2) and Mission Planning Capability
- Procure, integrate and field new and updated GEOINT-specific capabilities on DCGS hybrid cloud environment by the High Altitude GEOINT (HA GEOINT) and Full Motion Video (FMV) Agile Release Trains

Milestone/Development Status

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has reached Full Operational Capability (FOC) and all modifications are being implemented in accordance with AFI 63-101.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6					<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF					<b>Modification Number / Title:</b> 2 / GEOINT Transformation (GEOINT)		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> DCGS				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b>				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> GEOINT Transformation												
B Kits												
Recurring												
GEOINT Transformation:EQUIPMENT Group B (Active)	- / -	- / 39.320	- / 33.748	- / 36.301	- / -	- / 36.301	- / 34.002	- / 7.917	- / 16.711	- / 68.409	- / -	- / 236.408
<i>Subtotal: Recurring</i>	- / -	- / 39.320	- / 33.748	- / 36.301	- / -	- / 36.301	- / 34.002	- / 7.917	- / 16.711	- / 68.409	- / -	- / 236.408
<i>Subtotal: GEOINT Transformation</i>	- / -	- / 39.320	- / 33.748	- / 36.301	- / -	- / 36.301	- / 34.002	- / 7.917	- / 16.711	- / 68.409	- / -	- / 236.408
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 39.320	- / 33.748	- / 36.301	- / -	- / 36.301	- / 34.002	- / 7.917	- / 16.711	- / 68.409	- / -	- / 236.408
<b>Support (All Modification Items)</b>												
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / 0.000
PMA - Other Gov't Costs	- / -	- / 0.107	- / 0.107	- / 0.107	- / -	- / 0.107	- / 0.107	- / 0.050	- / 0.107	- / 0.107	- / -	- / 0.692
PMA - Contractor Services	- / -	- / 3.075	- / 3.544	- / 4.093	- / -	- / 4.093	- / 2.944	- / 1.401	- / 2.944	- / 2.944	- / -	- / 20.945
<i>Subtotal: Support</i>	- / -	- / 3.182	- / 3.651	- / 4.200	- / -	- / 4.200	- / 3.051	- / 1.451	- / 3.051	- / 3.051	- / -	- / 21.637
<b>Installation</b>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	<b>42.502</b>	<b>37.399</b>	<b>40.501</b>	<b>0.000</b>	<b>40.501</b>	<b>37.053</b>	<b>9.368</b>	<b>19.762</b>	<b>71.460</b>	-	<b>258.045</b>



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force						<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF			<b>Modification Number / Title:</b> 2 / GEOINT Transformation (GEOINT)	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 1:</b> GEOINT Transformation							
<b>Manufacturer Information</b>							
Manufacturer Name: Various				Manufacturer Location: Robins AFB			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates							
Delivery Dates							
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 3 / Signals Intelligence (SIGINT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	35.189	24.835	27.228	0.000	27.228	37.772	8.876	18.203	28.641	-	180.744
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	35.189	24.835	27.228	0.000	27.228	37.772	8.876	18.203	28.641	-	180.744
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>35.189</b>	<b>24.835</b>	<b>27.228</b>	<b>0.000</b>	<b>27.228</b>	<b>37.772</b>	<b>8.876</b>	<b>18.203</b>	<b>28.641</b>	-	<b>180.744</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

SIGINT Transformation: Rapidly integrates new and updated SIGINT capabilities (COTS/GOTS Hardware and Software), enables quick/seamless integration of new sensors, data types, sensor planning, command and control (C2) capabilities into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

Justification: FY23 funding will

- Procure, integrate and field DCGS capabilities to insure compatibility with new SIGINT sensors/sensor modifications
- Procure, integrate and field new data types into SIGINT Sensor Data Ingest (SSDI)
- Procure, integrate and field new and updated SIGINT-specific capabilities on DCGS hybrid cloud environment by the SIGINT Modernization Agile Release Train

Milestone/Development Status

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has reached FOC and all modifications are being implemented in accordance with AFI 63-101.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>											<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6				<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF				<b>Modification Number / Title:</b> 3 / Signals Intelligence (SIGINT)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B						<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> 0305208F				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b> 0305208F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> Signals Intelligence Transformation												
B Kits												
Recurring												
Signals Intelligence Transformation:EQUIPMENT Group B (Active)	- / -	- / 32.462	- / 21.706	0 / 24.100	- / -	0 / 24.100	0 / 34.644	- / 7.448	- / 15.075	- / 25.513	- / -	0 / 160.948
<i>Subtotal: Recurring</i>	- / -	- / 32.462	- / 21.706	- / 24.100	- / -	- / 24.100	- / 34.644	- / 7.448	- / 15.075	- / 25.513	- / -	- / 160.948
<i>Subtotal: Signals Intelligence Transformation</i>	- / -	- / 32.462	- / 21.706	- / 24.100	- / -	- / 24.100	- / 34.644	- / 7.448	- / 15.075	- / 25.513	- / -	- / 160.948
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 32.462	- / 21.706	- / 24.100	- / -	- / 24.100	- / 34.644	- / 7.448	- / 15.075	- / 25.513	- / -	- / 160.948
<b>Support (All Modification Items)</b>												
PMA - Contractor Services	- / -	- / 2.682	- / 3.083	- / 3.078	- / -	- / 3.078	- / 3.076	- / 1.378	- / 3.074	- / 3.073	- / -	- / 19.444
PMA - Other Gov't Costs	- / -	- / 0.045	- / 0.046	- / 0.050	- / -	- / 0.050	- / 0.052	- / 0.050	- / 0.054	- / 0.055	- / -	- / 0.352
<i>Subtotal: Support</i>	- / -	- / 2.727	- / 3.129	- / 3.128	- / -	- / 3.128	- / 3.128	- / 1.428	- / 3.128	- / 3.128	- / -	- / 19.796
<b>Installation</b>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	35.189	24.835	27.228	0.000	27.228	37.772	8.876	18.203	28.641	-	180.744

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force						<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF			<b>Modification Number / Title:</b> 3 / Signals Intelligence (SIGINT)	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 1:</b> Signals Intelligence Transformation							
<b>Manufacturer Information</b>							
Manufacturer Name: various				Manufacturer Location: various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates							
Delivery Dates							
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate						<b>Installation Quantity:</b> 0	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 4 / Multi-Intelligence (Multi-INT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	26.783	41.244	23.763	0.000	23.763	17.414	7.409	17.003	23.727	-	157.343
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	26.783	41.244	23.763	0.000	23.763	17.414	7.409	17.003	23.727	-	157.343
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>26.783</b>	<b>41.244</b>	<b>23.763</b>	<b>0.000</b>	<b>23.763</b>	<b>17.414</b>	<b>7.409</b>	<b>17.003</b>	<b>23.727</b>	-	<b>157.343</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Multi-INT-1: Rapidly integrates new and updated enterprise applications (COTS/GOTS Hardware and Software), to include voice and chat communications, collaboration and situational awareness, multi-INT fusion, and data analytics capabilities (to include Artificial Intelligence/Machine Learning AI/ML, Automation, and Augmentation (AAA)). 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. Rapidly integrates new and updated data exchange and interoperability capabilities in support of USD(I)'s Common Data Fabric (CDF) Initiative. Addresses program office test and evaluation activities

Justification: FY23 funding will

- Procure, integrate and field Enterprise Communications Capabilities
- Procure, integrate and field updates to Visualization and Situational Awareness Capabilities
- Procure, integrate and field Data Exchange and Interoperability Capabilities in support of Common Data Fabric (CDF) Initiative
- Procure, integrate and field new and updated Multi-INT and data analytics capabilities onto DCGS hybrid cloud environment

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.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6					<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF					<b>Modification Number / Title:</b> 4 / Multi-Intelligence (Multi-INT)			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> 0305208F				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> Multi-Int Upgrades													
B Kits													
Recurring													
Multi-Int Upgrades:EQUIPMENT Group B (Active)	- / -	- / 24.692	- / 38.845	- / 21.263	- / -	- / 21.263	- / 15.415	- / 6.310	- / 15.004	- / 21.728	- / -	- / 143.257	
<i>Subtotal: Recurring</i>	- / -	- / 24.692	- / 38.845	- / 21.263	- / -	- / 21.263	- / 15.415	- / 6.310	- / 15.004	- / 21.728	- / -	- / 143.257	
<i>Subtotal: Multi-Int Upgrades</i>	- / -	- / 24.692	- / 38.845	- / 21.263	- / -	- / 21.263	- / 15.415	- / 6.310	- / 15.004	- / 21.728	- / -	- / 143.257	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 24.692	- / 38.845	- / 21.263	- / -	- / 21.263	- / 15.415	- / 6.310	- / 15.004	- / 21.728	- / -	- / 143.257	
<b>Support (All Modification Items)</b>													
PMA - Other Gov't Costs	- / -	- / 0.077	- / 0.092	- / 0.072	- / -	- / 0.072	- / 0.070	- / 0.050	- / 0.072	- / 0.070	- / -	- / 0.503	
PMA - Contractor Services	- / -	- / 2.014	- / 2.307	- / 2.428	- / -	- / 2.428	- / 1.929	- / 1.049	- / 1.927	- / 1.929	- / -	- / 13.583	
<i>Subtotal: Support</i>	- / -	- / 2.091	- / 2.399	- / 2.500	- / -	- / 2.500	- / 1.999	- / 1.099	- / 1.999	- / 1.999	- / -	- / 14.086	
<b>Installation</b>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	26.783	41.244	23.763	0.000	23.763	17.414	7.409	17.003	23.727	-	157.343	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force						<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF			<b>Modification Number / Title:</b> 4 / Multi-Intelligence (Multi-INT)	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 1:</b> Multi-Int Upgrades							
<b>Manufacturer Information</b>							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates							
Delivery Dates							
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 5 / Network Infrastructure Transformation

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	13.466	23.118	38.979	0.000	38.979	41.306	8.683	19.669	19.855	-	165.076
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	13.466	23.118	38.979	0.000	38.979	41.306	8.683	19.669	19.855	-	165.076
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>13.466</b>	<b>23.118</b>	<b>38.979</b>	<b>0.000</b>	<b>38.979</b>	<b>41.306</b>	<b>8.683</b>	<b>19.669</b>	<b>19.855</b>	-	<b>165.076</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Network Infrastructure Transformation: Continue to update 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. AF DCGS operates in hybrid cloud environment, consisting on OA DCGS Platform as a Service, on-premise/private cloud portion and VIZE unclassified, Secret and Top Secret environment as the commercial/public cloud portion. Network infrastructure transformation also handles integration of additional line-of-site capabilities.

Justification: FY23 funding will

- Procure, integrate and field updates to the OA network infrastructure
- Procure, integrate and field updates to mission-assured hybrid-cloud infrastructure and enterprise services
- Procure, integrate and field next phase of Centralized Management for Releasable Enclaves

Milestone/Development Status

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has reached FOC and all modifications are being implemented in accordance with AFI 63-101.



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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6					<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF					<b>Modification Number / Title:</b> 5 / Network Infrastructure Transformation			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> 0305208F				<b>Modification Type:</b> Reliability & Maintainability				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> Network Infrastructure													
B Kits													
Recurring													
Network Infrastructure:EQUIPMENT Group B (Active)	- / -	- / 12.502	- / 21.810	- / 33.457	- / -	- / 33.457	- / 37.484	- / 6.661	- / 15.847	- / 16.033	- / -	- / 143.794	
<i>Subtotal: Recurring</i>	- / -	- / 12.502	- / 21.810	- / 33.457	- / -	- / 33.457	- / 37.484	- / 6.661	- / 15.847	- / 16.033	- / -	- / 143.794	
<i>Subtotal: Network Infrastructure</i>	- / -	- / 12.502	- / 21.810	- / 33.457	- / -	- / 33.457	- / 37.484	- / 6.661	- / 15.847	- / 16.033	- / -	- / 143.794	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 12.502	- / 21.810	- / 33.457	- / -	- / 33.457	- / 37.484	- / 6.661	- / 15.847	- / 16.033	- / -	- / 143.794	
<b>Support (All Modification Items)</b>													
PMA - Other Gov't Costs	- / -	- / 0.070	- / 0.072	- / 0.072	- / -	- / 0.072	- / 0.075	- / 0.077	- / 0.079	- / 0.081	- / -	- / 0.526	
PMA - Contractor Services	- / -	- / 0.894	- / 1.236	- / 5.450	- / -	- / 5.450	- / 3.747	- / 1.945	- / 3.743	- / 3.741	- / -	- / 20.756	
<i>Subtotal: Support</i>	- / -	- / 0.964	- / 1.308	- / 5.522	- / -	- / 5.522	- / 3.822	- / 2.022	- / 3.822	- / 3.822	- / -	- / 21.282	
<b>Installation</b>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	<b>13.466</b>	<b>23.118</b>	<b>38.979</b>	<b>0.000</b>	<b>38.979</b>	<b>41.306</b>	<b>8.683</b>	<b>19.669</b>	<b>19.855</b>	-	<b>165.076</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force					<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF			<b>Modification Number / Title:</b> 5 / Network Infrastructure Transformation	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
<b>Modification Item 1 of 1:</b> Network Infrastructure							
<b>Manufacturer Information</b>							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates							
Delivery Dates							
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force		<b>Date:</b> April 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 1 / DCGS-AF

**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	22.288	124.774	79.742	0.000	79.742	73.113	33.234	29.970	30.630	-	393.751
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	22.288	124.774	79.742	0.000	79.742	73.113	33.234	29.970	30.630	-	393.751
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>22.288</b>	<b>124.774</b>	<b>79.742</b>	<b>0.000</b>	<b>79.742</b>	<b>73.113</b>	<b>33.234</b>	<b>29.970</b>	<b>30.630</b>	-	<b>393.751</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Detailed information on PE 0305240F, Support to DOD DCGS Enterprise remains classified and will be provided on a need-to-know basis.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

Milestone/Development Status

Detailed information on PE 0305240F, Support to DoD DCGS Enterprise remains classified and will be provided on a need-to-know basis.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Air Force</b>										<b>Date:</b> April 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6				<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF						<b>Modification Number / Title:</b> 1 / DCGS-AF		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> DCGS			<b>Modification Type:</b> Reliability & Maintainability					<b>Related RDT&amp;E PEs:</b>				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> Support to DCGS Enterprise												
B Kits												
Recurring												
Support to DCGS Enterprise:EQUIPMENT Group B (Active)	- / -	- / 22.288	- / 124.774	- / 79.742	- / -	- / 79.742	- / 73.113	- / 33.234	- / 29.970	- / 30.630	- / -	- / 393.751
<i>Subtotal: Recurring</i>	- / -	- / 22.288	- / 124.774	- / 79.742	- / -	- / 79.742	- / 73.113	- / 33.234	- / 29.970	- / 30.630	- / -	- / 393.751
<i>Subtotal: Support to DCGS Enterprise</i>	- / -	- / 22.288	- / 124.774	- / 79.742	- / -	- / 79.742	- / 73.113	- / 33.234	- / 29.970	- / 30.630	- / -	- / 393.751
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 22.288	- / 124.774	- / 79.742	- / -	- / 79.742	- / 73.113	- / 33.234	- / 29.970	- / 30.630	- / -	- / 393.751
<b>Installation</b>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	22.288	124.774	79.742	0.000	79.742	73.113	33.234	29.970	30.630	-	393.751

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Air Force						<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF			<b>Modification Number / Title:</b> 1 / DCGS-AF	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 1 of 1:</b> Support to DCGS Enterprise							
<b>Manufacturer Information</b>							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates							
Delivery Dates							
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 0		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846510 / Special Update Program
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	731.941	936.652	978.499	-	978.499	892.207	999.786	869.252	981.122	-	6,389.459
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	731.941	936.652	978.499	-	978.499	892.207	999.786	869.252	981.122	-	6,389.459
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>731.941</b>	<b>936.652</b>	<b>978.499</b>	-	<b>978.499</b>	<b>892.207</b>	<b>999.786</b>	<b>869.252</b>	<b>981.122</b>	-	<b>6,389.459</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

**Justification:**

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	1.664	0.978	1.007	-	1.007	1.029	1.052	1.081	1.105	0.000	7.916
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	1.664	0.978	1.007	-	1.007	1.029	1.052	1.081	1.105	0.000	7.916
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>1.664</b>	<b>0.978</b>	<b>1.007</b>	<b>-</b>	<b>1.007</b>	<b>1.029</b>	<b>1.052</b>	<b>1.081</b>	<b>1.105</b>	<b>0.000</b>	<b>7.916</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program 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): FY23 funding (\$1.007M) 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 2023 Air Force **Date:** April 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 05: Spares and Repair Parts / BSA 1: Spares And Repair Parts	<b>P-1 Line Item Number / Title:</b> 861900 / Spares And Repair Parts
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	19.847	9.575	23.175	-	23.175	14.239	14.440	13.768	14.071	0.000	109.115
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	19.847	9.575	23.175	-	23.175	14.239	14.440	13.768	14.071	0.000	109.115
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>19.847</b>	<b>9.575</b>	<b>23.175</b>	<b>-</b>	<b>23.175</b>	<b>14.239</b>	<b>14.440</b>	<b>13.768</b>	<b>14.071</b>	<b>0.000</b>	<b>109.115</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Initial Spares consist of reparable components, assemblies, subassemblies, and consumable items required as initial stock (including readiness spares package requirements) in support of newly fielded vehicles, communications electronics and telecommunications equipment, and other base maintenance and support equipment items. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information.

The following Major Defense Acquisition Program (MDAP) has funding in this line:

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Air Force **Date:** April 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / 19.847	- / 9.575	- / 23.175	- / 0.000	- / 23.175
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 19.847</b>	<b>- / 9.575</b>	<b>- / 23.175</b>	<b>- / -</b>	<b>- / 23.175</b>

Title represents the P-18 Title for Spares.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

ATCALs: FY23 funding (2.287M) is required to support the Digital Air Traffic Control Radio (0.306M), Man-Portable TACAN (0.370M), and Deployable Radar Approach Control (D-RAPCON/Lightweight Deployable Ground Controlled Approach (1.611M) programs.

Combat Training Range Equipment: FY23 funds (11.273M) 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: FY23 funding (2.111M) is required to support initial spares for the Flexible Communications Package (FCP). These spares and repair parts are unique and critical items required to be available for each individual fielding location.

Expeditionary Airfield Basing Assets: FY23 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): FY23 funding (5.059M) is required to support 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.

FY22 funding lowered to support other higher priority Air Force requirements. FY23 funding restored.

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<b>Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2023 Air Force</b>					<b>Date:</b> April 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 05 / 1		<b>P-1 Line Item Number / Title:</b> 861900 / Spares And Repair Parts			<b>Title:</b> Spares and Repair Parts	
<b>End Item Line Item Number / Name [MDAP/MAIS]</b>	<b>Prior Years</b> (\$ M)	<b>FY 2021</b> (\$ M)	<b>FY 2022</b> (\$ M)	<b>FY 2023 Base</b> (\$ M)	<b>FY 2023 OCO</b> (\$ M)	<b>FY 2023 Total</b> (\$ M)
<b>Initial</b>						
BA 05 - Spares and Repair Parts						
861900 / Air Traffic Control, Approach, and Landing System (ATCALs)	-	1.451	1.307	2.287	0.000	2.287
861900 / Combat Training Range Equipment	-	8.241	2.866	11.241	0.000	11.241
861900 / Deployable C3 Systems	-	1.983	2.111	2.236	0.000	2.236
861900 / Expeditionary Airfield Basing Assets	-	6.268	3.278	2.352	0.000	2.352
861900 / Wide Area Surveillance Spares	-	1.904	0.013	5.059	0.000	5.059
<b>Subtotal: Initial</b>	-	<b>19.847</b>	<b>9.575</b>	<b>23.175</b>	<b>0.000</b>	<b>23.175</b>
<b>Total Cost (Initial + Replenishment)</b>	-	<b>19.847</b>	<b>9.575</b>	<b>23.175</b>	<b>0.000</b>	<b>23.175</b>

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