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

April 2022



### **Air Force**

Justification Book Volume 4 of 4

Research, Development, Test & Evaluation, Air Force Vol-3b

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Air Force • Budget Estimates FY 2023 • RDT&E Program

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## Department of Defense FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2022

Summary Recap of Budget Activities	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment***
Basic Research	496,255	540,706				
Applied Research	1,794,038	1,872,076				
Advanced Technology Development	929,477	1,207,122				
Advanced Component Development & Prototypes	8,528,913	11,293,813				47,500
System Development & Demonstration	5,904,910	5,692,659				
Management Support	4,072,703	3,508,829				
Operational Systems Development	24,647,644	28,920,584				
Software and Digital Technology Pilot Programs	155,067	154,529				
Total Research, Development, Test & Evaluation	46,529,007	53,190,318				47,500

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:49:52

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

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

<sup>\*\*\*</sup>Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

<sup>\*\*\*\*</sup>Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

# Department of Defense FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2022

FY 2022

Summary Recap of Budget Activities	Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request
Basic Research		540,706	546,517
Applied Research		1,872,076	1,549,524
Advanced Technology Development		1,207,122	1,391,486
Advanced Component Development & Prototypes	47,500	11,341,313	10,937,696
System Development & Demonstration		5,692,659	11,774,613
Management Support		3,508,829	3,458,471
Operational Systems Development		28,920,584	29,193,876
Software and Digital Technology Pilot Programs		154 <b>,</b> 529	1,101,490
Total Research, Development, Test & Evaluation	47,500	53,237,818	59,953,673

## Department of Defense FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority (Dollars in Thousands)

Authority 25 Mar 2022

	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**	Division A Division N P.L. 117-86 P.L. 117-103
Summary Recap of FYDP Programs					
Strategic Forces	897,413	1,157,141			
General Purpose Forces	3,542,013	4,578,366			
Intelligence and Communications	1,143,506	1,142,450			47,500
Mobility Forces	886,208	825 <b>,</b> 887			
Research and Development	14,431,656	16,605,652			
Central Supply and Maintenance	122,916	155,648			
Training Medical and Other	7,012	17,944			
Administration and Associated Activities	68,180	89,612			
Support of Other Nations	3,592	2,420			
Space	6,979,949	7,040,836			
Classified Programs	18,446,562	21,574,362			
Total Research, Development, Test & Evaluation	46,529,007	53,190,318			47,500

R-123PBP: FY~2023~President's~Budget~(Total~Base~Published~Version),~as~of~March~25,~2022~at~15:49:52

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# Department of Defense FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2022

	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request
Summary Recap of FYDP Programs			
Strategic Forces		1,157,141	1,217,682
General Purpose Forces		4,578,366	4,818,319
Intelligence and Communications	47,500	1,189,950	1,509,185
Mobility Forces		825 <b>,</b> 887	765 <b>,</b> 678
Research and Development		16,605,652	18,433,261
Central Supply and Maintenance		155,648	66,133
Training Medical and Other		17,944	27,538
Administration and Associated Activities		89,612	29,823
Support of Other Nations		2,420	2,593
Space		7,040,836	10,869,462
Classified Programs		21,574,362	22,213,999
Total Research, Development, Test & Evaluation	47,500	53,237,818	59,953,673

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

gational Authority 25 Mar 2022

Summary Recap of Budget Activities	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment***
Basic Research	496,255	540,706				
Applied Research	1,579,544	1,585,571				
Advanced Technology Development	929,477	968,538				
Advanced Component Development & Prototypes	7,193,095	9,695,253				47,500
System Development & Demonstration	2,266,274	2,524,849				
Management Support	3,534,738	3,037,687				
Operational Systems Development	20,022,756	23,240,309				
Software and Digital Technology Pilot Programs						
Total Research, Development, Test & Evaluation	36,022,139	41,592,913				47,500

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

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

25 Mar 2022

FY 2022

	Total Supplemental	FY 2022 Total	FY 2023
Summary Recap of Budget Activities	Enactment	Enactment	Request
Basic Research		540,706	546,517
Applied Research		1,585,571	1,305,787
Advanced Technology Development		968,538	827,271
Advanced Component Development & Prototypes	47,500	9,742,753	7,945,238
System Development & Demonstration		2,524,849	6,438,954
Management Support		3,037,687	3,033,528
Operational Systems Development		23,240,309	23,090,569
Software and Digital Technology Pilot Programs			946,437
Total Research, Development, Test & Evaluation	47,500	41,640,413	44,134,301

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

al Obligational Authority 25 Mar 2022 (Dollars in Thousands)

Summary Recap of Budget Activities	FY 2021 (Base + OCO)		Enactment*	FY 2022 Division B P.L.117-70 Enactment**	Division A Division P.L. 117-86 P.L. 117-Enactment*** Enactment*	n N -103
Summary Recap of FYDP Programs						
Strategic Forces	897,413	1,157,141				
General Purpose Forces	3,542,013	4,578,366				
Intelligence and Communications	1,143,506	1,142,450			47,5	500
Mobility Forces	886,208	825,887				
Research and Development	14,431,656	16,605,652				
Central Supply and Maintenance	122,916	155,648				
Training Medical and Other	7,012	17,944				
Administration and Associated Activities	68,180	89,612				
Support of Other Nations	3,592	2,420				
Space	9,974	6,740				
Classified Programs	14,909,669	17,011,053				
Total Research, Development, Test & Evaluation	36,022,139	41,592,913			47,5	500

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

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

25 Mar 2022

Summary Recap of Budget Activities	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request
Summary Recap of FYDP Programs			
Strategic Forces		1,157,141	1,217,682
General Purpose Forces		4,578,366	4,818,319
Intelligence and Communications	47,500	1,189,950	1,509,185
Mobility Forces		825 <b>,</b> 887	765 <b>,</b> 678
Research and Development		16,605,652	18,432,445
Central Supply and Maintenance		155,648	66,133
Training Medical and Other		17,944	27,538
Administration and Associated Activities		89,612	29,823
Support of Other Nations		2,420	2,593
Space		6,740	24,264
Classified Programs		17,011,053	17,240,641
Total Research, Development, Test & Evaluation	47,500	41,640,413	44,134,301

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item 	Act 	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c
1 0601102F	Defense Research Sciences	01	303,718	353,303				U
2 0601103F	University Research Initiatives	01	178,083	187,403				U
3 0601108F	High Energy Laser Research Initiatives	01	14,454					Ŭ
Basi	c Research		496,255	540 <b>,</b> 706				
4 0602020F	Future AF Capabilities Applied Research	02	73,226	79,901				U
5 0602102F	Materials	02	228,115	220,960				U
6 0602201F	Aerospace Vehicle Technologies	02	148,576	183,032				U
7 0602202F	Human Effectiveness Applied Research	02	127,160	156,863				Ū
8 0602203F	Aerospace Propulsion	02	190,732	190,683				U
9 0602204F	Aerospace Sensors	02	221 <b>,</b> 779	255,918				U
10 0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02	106,964					Ū
11 0602298F	Science and Technology Management - Major Headquarters Activities	02	8,910	8,891				U
12 0602602F	Conventional Munitions	02	118,541	151,757				U
13 0602605F	Directed Energy Technology	02	122,816	116,456				U
14 0602788F	Dominant Information Sciences and Methods	02	205,839	221,110				U

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

<sup>\*\*</sup>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 R-1 FY 2023 President's Budget Total Obligational Authority (Dollars in Thousands)

25 Mar 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
1 0601102F	Defense Research Sciences	01		353,303	375 <b>,</b> 325	U
2 0601103F	University Research Initiatives	01		187,403	171,192	U
3 0601108F	High Energy Laser Research Initiatives	01				U
Basic	Research			540,706	546,517	•
4 0602020F	Future AF Capabilities Applied Research	02		79,901	88 <b>,</b> 672	U
5 0602102F	Materials	02		220,960	134,795	U
6 0602201F	Aerospace Vehicle Technologies	02		183,032	159,453	U
7 0602202F	Human Effectiveness Applied Research	02		156,863	135,771	U
8 0602203F	Aerospace Propulsion	02		190,683	172,861	U
9 0602204F	Aerospace Sensors	02		255 <b>,</b> 918	192,733	U
10 0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02				U
11 0602298F	Science and Technology Management - Major Headquarters Activities	02		8,891	8,856	U
12 0602602F	Conventional Munitions	02		151 <b>,</b> 757	137,303	U
13 0602605F	Directed Energy Technology	02		116,456	109,302	U
14 0602788F	Dominant Information Sciences and Methods	02		221,110	166,041	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line Ele No Nur	ogram ement mber	Item	Act 	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment****	е
15 060	02890F	High Energy Laser Research	02	26 <b>,</b> 886						U
	Appli	ed Research		1,579,544	1,585,571					
16 060	03032F	Future AF Integrated Technology Demos	03	135,940	112,643					U
17 060	03112F	Advanced Materials for Weapon Systems	03	57,221	63,378					U
18 060	03199F	Sustainment Science and Technology (S&T)	03	15,631	19,112					U
19 060	03203F	Advanced Aerospace Sensors	03	33,162	53 <b>,</b> 750					U
20 060	03211F	Aerospace Technology Dev/Demo	03	34,321	105,486					U
21 060	03216F	Aerospace Propulsion and Power Technology	03	159,354	110,273					U
22 060	03270F	Electronic Combat Technology	03	33,804	44,938					U
23 060	03273F	Science & Technology for Nuclear Re-entry Systems	03							U
24 060	03401F	Advanced Spacecraft Technology	03	63,088						U
25 060	03444F	Maui Space Surveillance System (MSSS)	03	11,486						U
26 060	03456F	Human Effectiveness Advanced Technology Development	03	29,412	23,459					U
27 060	03601F	Conventional Weapons Technology	03	124,025	155,306					U
28 060	03605F	Advanced Weapons Technology	03	29,094	31,855					U

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### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority (Pollars in Thousand)

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
15 0602890F	High Energy Laser Research	02				U
Appl	ied Research			1,585,571	1,305,787	
16 0603032F	Future AF Integrated Technology Demos	03		112,643	152,559	U
17 0603112F	Advanced Materials for Weapon Systems	03		63,378	29,116	U
18 0603199F	Sustainment Science and Technology (S&T)	03		19,112	10,695	U
19 0603203F	Advanced Aerospace Sensors	03		53 <b>,</b> 750	36,997	U
20 0603211F	Aerospace Technology Dev/Demo	03		105,486	54,727	U
21 0603216F	Aerospace Propulsion and Power Technology	03		110,273	64,254	U
22 0603270F	Electronic Combat Technology	03		44,938	33,380	U
23 0603273F	Science & Technology for Nuclear Re-entry Systems	03			39,431	U
24 0603401F	Advanced Spacecraft Technology	03				U
25 0603444F	Maui Space Surveillance System (MSSS)	03				U
26 0603456F	Human Effectiveness Advanced Technology Development	03		23,459	20,652	U
27 0603601F	Conventional Weapons Technology	03		155,306	187,374	U
28 0603605F	Advanced Weapons Technology	03		31,855	98,503	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Line No	Program Element Number	Item	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c
29	0603680F	Manufacturing Technology Program	03	143,334	176,200				U
30	0603788F	Battlespace Knowledge Development and Demonstration	03	59,605	72,138				U
	Advar	nced Technology Development		929,477	968,538				
31	0603036F	Modular Advanced Missile	04						U
32	0603260F	Intelligence Advanced Development	04	4,312	5,795				U
33	0603742F	Combat Identification Technology	04	25,824	21,939				U
34	0603790F	NATO Research and Development	04	3,506	4,114				U
35	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	34,755	76,621				Ŭ
36	0604001F	NC3 Advanced Concepts	04		6,900				U
37	0604002F	Air Force Weather Services Research	04	2,151	3,855				Ŭ
38	0604003F	Advanced Battle Management System (ABMS)	04	152,691	268,849				U
39	0604004F	Advanced Engine Development	04	642,581	583,712				Ŭ
40	0604006F	Dept of the Air Force Tech Architecture	04		25,138				Ū
41	0604015F	Long Range Strike - Bomber	04	2,744,473	2,872,624				U
42	0604032F	Directed Energy Prototyping	04	19,023	15,820				Ū
43	0604033F	Hypersonics Prototyping	04	374,426	318,687				U

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

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No 	Program Element Number	Item	Act 	FY 2022 Total Enactment	FY 2023 Request	S e c -
29	0603680F	Manufacturing Technology Program	03	176,200	47 <b>,</b> 759	U
30	0603788F	Battlespace Knowledge Development and Demonstration	03	72,138	51,824	
	Advan	ced Technology Development		 968,538	827 <b>,</b> 271	
31	0603036F	Modular Advanced Missile	04		125,688	U
32	0603260F	Intelligence Advanced Development	04	5,795	6,101	U
33	0603742F	Combat Identification Technology	04	21,939	17,318	U
34	0603790F	NATO Research and Development	04	4,114	4,295	U
35	0603851F	Intercontinental Ballistic Missile - Dem/Val	0 4	76,621	46,432	U
36	0604001F	NC3 Advanced Concepts	04	6,900	5,098	U
37	0604002F	Air Force Weather Services Research	0 4	3,855		U
38	0604003F	Advanced Battle Management System (ABMS)	0 4	268,849	231,408	U
39	0604004F	Advanced Engine Development	04	583,712	353,658	U
40	0604006F	Dept of the Air Force Tech Architecture	0 4	25,138	66,615	U
41	0604015F	Long Range Strike - Bomber	04	2,872,624	3,253,584	U
42	0604032F	Directed Energy Prototyping	0 4	15,820	4,269	U
43	0604033F	Hypersonics Prototyping	04	318,687	431,868	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Line No	Program Element Number	Item	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c	
	0604183F	Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	04		190,116				U	
45	0604201F	PNT Resiliency, Mods, and Improvements	04		39,742				U	
46	0604257F	Advanced Technology and Sensors	04	25,901	23,745				U	
47	0604288F	Survivable Airborne Operations Center	04	50,038	95,788				U	
48	0604317F	Technology Transfer	04	16,823	56,768				U	
49	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	53,026	12,886				U	
50	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	67,616	71,229				U	
51	0604668F	Joint Transportation Management System (JTMS)	04						U	
52	0604776F	Deployment & Distribution Enterprise R&D	04	25,474	40,103				U	
53	0604858F	Tech Transition Program	04	297,254	359,045				U	
54	0604860F	Operational Energy and Installation Resilience	04		104,000				U	
55	0605230F	Ground Based Strategic Deterrent	04	1,397,485	2,553,541				U	
56	0207110F	Next Generation Air Dominance	04	869,740	1,524,667				U	
57	0207179F	Autonomous Collaborative Platform	s 04						U	

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

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Prog: Line Eleme No Numbe	ent er Item	Act	FY 2022 Total FY 2022 Supplemental Total Enactment Enactment	FY 2023 Request	S e c
44 0604		04	190,116	144,891	U
45 06042	201F PNT Resiliency, Mods, and Improvements	04	39,742	12,010	U
46 06042	257F Advanced Technology and Sensors	04	23,745	13,311	U
47 06042	288F Survivable Airborne Operations Center	04	95,788	203,213	U
48 06043	317F Technology Transfer	04	56,768	16,759	U
49 0604	327F Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	12,886	106,826	U
50 0604	414F Cyber Resiliency of Weapon Systems-ACS	04	71,229	44,526	U
51 0604	668F Joint Transportation Management System (JTMS)	04		51,758	U
52 0604	776F Deployment & Distribution Enterprise R&D	04	40,103	27,586	U
53 06048	358F Tech Transition Program	04	359,045	649,545	U
54 0604	860F Operational Energy and Installation Resilience	04	104,000		U
55 0605	230F Ground Based Strategic Deterrent	04	2,553,541		U
56 0207	110F Next Generation Air Dominance	04	1,524,667	1,657,733	U
57 0207	179F Autonomous Collaborative Platform	s 04		51,747	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Program Line Element No Number	Item	Act	FY 2021 (Base + OCO)	FY 2022 Less Supplementals Enactment	Division B Division C P.L.117-43 Enactment*	FY 2022 Division B P.L.117-70 Enactment**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment***	е
58 0207420F	Combat Identification	04							U
59 0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	18,862						U
60 0207522F	Airbase Air Defense Systems (ABADS)	04	8,451	10,905					U
61 0208030F	War Reserve Materiel - Ammunition	04		3,943					U
62 0208099F	Unified Platform (UP)	04	5,869						U
63 0304369F	Cyber Capabilities Support Office (CCSO)	04	19,964						U
64 0305236F	Common Data Link Executive Agent (CDL EA)	04	39,221	43,881					U
65 0305601F	Mission Partner Environments	04	10,991	16,420					U
66 0306250F	Cyber Operations Technology Support	04	226,073	242,499				38,900	U
67 0306415F	Enabled Cyber Activities	04	10,166	16,578				8,600	U
68 0401310F	C-32 Executive Transport Recapitalization	04	6,151						U
69 0708051F	Rapid Sustainment Modernization (RSM)	04	34,693	65,000					U
70 0808737F	CVV Integrated Prevention	04							U
71 0901410F	Contracting Information Technology System	04	5,555	20,343					U

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:49:52

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

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

<sup>\*\*\*</sup>Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

<sup>\*\*\*\*</sup>Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority (Pollars in Thousand)

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
						-
58 0207420F	Combat Identification	04			1,866	U
59 0207455F	Three Dimensional Long-Range Radar (3DELRR)	04			14,490	U
60 0207522F	Airbase Air Defense Systems (ABADS)	04		10,905	52,498	U
61 0208030F	War Reserve Materiel - Ammunition	04		3,943	10,288	U
62 0208099F	Unified Platform (UP)	04				U
63 0304369F	Cyber Capabilities Support Office (CCSO)	04				U
64 0305236F	Common Data Link Executive Agent (CDL EA)	04		43,881	37,460	U
65 0305601F	Mission Partner Environments	04		16,420	17,378	U
66 0306250F	Cyber Operations Technology Support	04	38,900	281 <b>,</b> 399	234,576	U
67 0306415F	Enabled Cyber Activities	04	8,600	25 <b>,</b> 178	16,728	U
68 0401310F	C-32 Executive Transport Recapitalization	04				U
69 0708051F	Rapid Sustainment Modernization (RSM)	04		65,000		U
70 0808737F	CVV Integrated Prevention	04			9,315	U
71 0901410F	Contracting Information Technology System	04		20,343	14,050	U

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

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No 	Program Element Number	Item 	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment****	е
72	1206415F	U.S. Space Command Research and Development Support	04							U
	Advan	nced Component Development & Prototy	pes	7,193,095	9,695,253				47,500	
73	0604200F	Future Advanced Weapon Analysis & Programs	05	22,478	18,499					U
74	0604201F	PNT Resiliency, Mods, and Improvements	05	37,409	163,520					U
75	0604222F	Nuclear Weapons Support	05	24,502	30,050					U
76	0604270F	Electronic Warfare Development	05	2,017	7,110					U
77	0604281F	Tactical Data Networks Enterprise	05	111,125	159,836					U
78	0604287F	Physical Security Equipment	05	5 <b>,</b> 979	8,469					U
79	0604602F	Armament/Ordnance Development	05	20,199	9,047					U
80	0604604F	Submunitions	05	3,085	2,954					U
81	0604617F	Agile Combat Support	05	18,398	27,938					U
82	0604618F	Joint Direct Attack Munition	05	6,555						U
83	0604706F	Life Support Systems	05	27,748	25,437					U
84	0604735F	Combat Training Ranges	05	23,054	23,980					U
85	0604800F	F-35 - EMD	05	5,214						U
86	0604932F	Long Range Standoff Weapon	05	373,499	599,042					U
87	0604933F	ICBM Fuze Modernization	05	151,158	129,709					U

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

<sup>\*\*</sup>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 R-1 FY 2023 President's Budget Total Obligational Authority

cal Obligational Authority 25 Mar 2022 (Dollars in Thousands)

FY 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Line E No N	Program Element Number	Item	Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
	L206415F	U.S. Space Command Research and Development Support	04			10,350	Ū
	Advan	ced Component Development & Prototy	pes	47,500	9,742,753	7,945,238	
73 0	0604200F	Future Advanced Weapon Analysis & Programs	05		18,499	9,879	U
74 0	0604201F	PNT Resiliency, Mods, and Improvements	05		163,520	176,824	U
75 0	)604222F	Nuclear Weapons Support	05		30,050	64,425	U
76 0	)604270F	Electronic Warfare Development	05		7,110	2,222	U
77 0	)604281F	Tactical Data Networks Enterprise	05		159,836	133,117	U
78 0	)604287F	Physical Security Equipment	05		8,469	8,493	U
79 0	)604602F	Armament/Ordnance Development	05		9,047	5,279	U
80 0	)604604F	Submunitions	05		2,954	3,273	U
81 0	)604617F	Agile Combat Support	05		27,938	14,252	U
82 0	0604618F	Joint Direct Attack Munition	05				U
83 0	0604706F	Life Support Systems	05		25,437	47,442	U
84 0	0604735F	Combat Training Ranges	05		23,980	91,284	U
85 0	0604800F	F-35 - EMD	05				U
86 0	0604932F	Long Range Standoff Weapon	05		599,042	928,850	U
87 0	0604933F	ICBM Fuze Modernization	05		129,709	98 <b>,</b> 376	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Line Ele No Num	ogram ement mber		Act 	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c
88 060	05030F	Joint Tactical Network Center (JTNC)	05						U
89 060	05056F	Open Architecture Management	05	29,709	37,109				U
90 060	05223F	Advanced Pilot Training	05	216,765	188,898				U
91 060	05229F	HH-60W	05	32,196	62,255				U
92 060	05238F	Ground Based Strategic Deterrent EMD	05						U
93 010	01125F	Nuclear Weapons Modernization	05	9,595					U
94 020	07171F	F-15 EPAWSS	05	165,691	112,012				U
95 020	07279F	Isolated Personnel Survivability and Recovery	05						Ū
96 020	07328F	Stand In Attack Weapon	05	145,858	166,570				U
97 020	07701F	Full Combat Mission Training	05	9,060	12,064				U
98 030	03267F	Auctioned Spectrum Relocation Fund	05	36,154					U
99 030	03667F	Citizen Broadband Radio System	05	2,306					U
100 030	03767F	AMBIT - Pre-Auctioned SRF	05	5,270					U
101 030	05176F	Combat Survivor Evader Locator	05	935					U
102 040	01221F	KC-46A Tanker Squadrons	05	35,818	66 <b>,</b> 758				U
103 040	01319F	VC-25B	05	720,155	655,665				U
104 070	01212F	Automated Test Systems	05	12,418	15,445				U

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:49:52

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

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<sup>\*\*\*</sup>Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

<sup>\*\*\*\*</sup>Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority (Pollars in Thousand)

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
88 0605030F	Joint Tactical Network Center (JTNC)	05			2,222	U
89 0605056F	Open Architecture Management	05		37,109	38,222	U
90 0605223F	Advanced Pilot Training	05		188,898	37,121	U
91 0605229F	HH-60W	05		62 <b>,</b> 255	58,974	U
92 0605238F	Ground Based Strategic Deterrent EMD	05			3,614,290	U
93 0101125F	Nuclear Weapons Modernization	05				U
94 0207171F	F-15 EPAWSS	05		112,012	67,956	U
95 0207279F	Isolated Personnel Survivability and Recovery	05			27,881	U
96 0207328F	Stand In Attack Weapon	05		166,570	283,152	U
97 0207701F	Full Combat Mission Training	05		12,064	3,028	U
98 0303267F	Auctioned Spectrum Relocation Fund	d 05				U
99 0303667F	Citizen Broadband Radio System	05				U
100 0303767F	AMBIT - Pre-Auctioned SRF	05				U
101 0305176F	Combat Survivor Evader Locator	05				U
102 0401221F	KC-46A Tanker Squadrons	05		66 <b>,</b> 758	197,510	U
103 0401319F	VC-25B	05		655,665	492,932	U
104 0701212F	Automated Test Systems	05		15,445	16,664	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Line No 	Program Element Number		Act 	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment****	е
105	0804772F	Training Developments	05	4,471	2,482					U
106	0901299F	AF A1 Systems	05	7,453						U
107	1206442F	Next Generation OPIR	05							U
	Syste	em Development & Demonstration		2,266,274	2,524,849					
108	0604256F	Threat Simulator Development	06	56,987	46,909					U
109	0604759F	Major T&E Investment	06	207,103	130,766					U
110	0605101F	RAND Project Air Force	06	35,195	36,017					U
111	0605502F	Small Business Innovation Research	06	662,308						U
112	0605712F	Initial Operational Test & Evaluation	06	10,407	12,582					U
113	0605807F	Test and Evaluation Support	06	770,149	811,032					U
114	0605826F	Acq Workforce- Global Power	06	264,371						U
115	0605827F	Acq Workforce- Global Vig & Combat Sys	06	263 <b>,</b> 868	267,919					U
116	0605828F	Acq Workforce- Global Reach	06	164,440	429,659					U
117	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06	251 <b>,</b> 517	439,571					U
118	0605830F	Acq Workforce- Global Battle Mgmt	06	173,987						U
119	0605831F	Acq Workforce- Capability Integration	06	227,357	263,014					U

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

Total Obligational Authority 25 Mar 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number		Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	s e c
105 0804772F	Training Developments	05		2,482	15,138	U
106 0901299F	AF A1 Systems	05				U
107 1206442F	Next Generation OPIR	05			148	
Syste	em Development & Demonstration			2,524,849	6,438,954	
108 0604256F	Threat Simulator Development	06		46,909	21,067	U
109 0604759F	Major T&E Investment	06		130,766	44,714	U
110 0605101F	RAND Project Air Force	06		36,017	37,921	U
111 0605502F	Small Business Innovation Research	06			86	U
112 0605712F	Initial Operational Test & Evaluation	06		12,582	13,926	U
113 0605807F	Test and Evaluation Support	06		811,032	826,854	U
114 0605826F	Acq Workforce- Global Power	06				U
115 0605827F	Acq Workforce- Global Vig & Combat Sys	06		267,919	255 <b>,</b> 995	U
116 0605828F	Acq Workforce- Global Reach	06		429,659	457 <b>,</b> 589	U
117 0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06		439,571	459 <b>,</b> 223	U
118 0605830F	Acq Workforce- Global Battle Mgmt	06			3,696	U
119 0605831F	Acq Workforce- Capability Integration	06		263,014	229,610	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Program Line Element No Number	Item	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c
120 0605832	Acq Workforce- Advanced Prgm Technology	06	53,577	62,755				Ŭ
121 06058331	Acq Workforce- Nuclear Systems	06	174,318	227,425				U
122 0605898	Management HQ - R&D	06	5,424	5,537				U
123 0605976	Facilities Restoration and Modernization - Test and Evaluation Support	06	60,856	70 <b>,</b> 788				υ
124 0605978	Facilities Sustainment - Test and Evaluation Support	06	29,826	30,057				Ū
125 0606017	Requirements Analysis and Maturation	06	66,233	90,799				Ŭ
126 06063981	Management HQ - T&E	06	6,929	6,163				U
127 0303166E	Support to Information Operations (IO) Capabilities	06		537				Ū
128 0303255	Command, Control, Communication, and Computers (C4) - STRATCOM	06	21,525	35,340				U
129 0308602E	ENTEPRISE INFORMATION SERVICES (EIS)	06	9,561	26,720				U
130 0702806	Acquisition and Management Support	t 06	12,943	37,211				U
131 0804731	General Skill Training	06	1,260	1,506				U
132 0804772	Training Developments	06		2,957				U
133 09099999	Financing for Cancelled Account Adjustments	06	1,005					Ŭ

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### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item 	Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	s e c -
120 0605832F	Acq Workforce- Advanced Prgm Technology	06		62,755	92,648	U
121 0605833F	Acq Workforce- Nuclear Systems	06		227,425	241,226	U
122 0605898F	Management HQ - R&D	06		5 <b>,</b> 537	4,347	U
123 0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06		70 <b>,</b> 788	77,820	U
124 0605978F	Facilities Sustainment - Test and Evaluation Support	06		30,057	31,561	U
125 0606017F	Requirements Analysis and Maturation	06		90,799	101,844	U
126 0606398F	Management HQ - T&E	06		6,163	6,285	U
127 0303166F	Support to Information Operations (IO) Capabilities	06		537	556	U
128 0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM	06		35,340	15,559	U
129 0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06		26,720	83,231	U
130 0702806F	Acquisition and Management Support	. 06		37,211	24,306	U
131 0804731F	General Skill Training	06		1,506	871	U
132 0804772F	Training Developments	06		2,957		U
133 0909999F	Financing for Cancelled Account Adjustments	06				U

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

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Line No 	Program Element Number	Item	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment****	е
134	1001004F	International Activities	06	3,592	2,420					U
135	1206864F	Space Test Program (STP)	06		3					U
	Manag	mement Support		3,534,738	3,037,687					
136	0604233F	Specialized Undergraduate Flight Training	07	13,438	8 <b>,</b> 589					U
137	0604445F	Wide Area Surveillance	07		2,760					U
138	0604617F	Agile Combat Support	07							U
139	0604776F	Deployment & Distribution Enterprise R&D	07	479						U
140	0604840F	F-35 C2D2	07	684,931	1,105,404					U
141	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	29,526	22,010					U
142	0605024F	Anti-Tamper Technology Executive Agency	07	46,785	51,492					U
143	0605117F	Foreign Materiel Acquisition and Exploitation	07	68,962	71,391					U
144	0605278F	HC/MC-130 Recap RDT&E	07	15 <b>,</b> 552	46,796					U
145	0606018F	NC3 Integration	07	30,521	26,532					U
146	0606942F	Assessments and Evaluations Cyber Vulnerabilities	07	2,885						U
147	0101113F	B-52 Squadrons	07	453,605	646,811					U

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:49:52

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

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
134 1001004F	International Activities	06		2,420	2,593	U
135 1206864F	Space Test Program (STP)	06		3		U
Mana	gement Support			3,037,687	3,033,528	•
136 0604233F	Specialized Undergraduate Flight Training	07		8,589	18,037	U
137 0604445F	Wide Area Surveillance	07		2,760		U
138 0604617F	Agile Combat Support	07			8,199	U
139 0604776F	Deployment & Distribution Enterprise R&D	07			156	U
140 0604840F	F-35 C2D2	07		1,105,404	1,014,708	U
141 0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07		22,010	37,901	U
142 0605024F	Anti-Tamper Technology Executive Agency	07		51,492	50,066	U
143 0605117F	Foreign Materiel Acquisition and Exploitation	07		71,391	80,338	U
144 0605278F	HC/MC-130 Recap RDT&E	07		46,796	47,994	U
145 0606018F	NC3 Integration	07		26,532	23,559	U
146 0606942F	Assessments and Evaluations Cyber Vulnerabilities	07				U
147 0101113F	B-52 Squadrons	07		646,811	770,313	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Program Line Element No Number		Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c
148 0101122F	Air-Launched Cruise Missile (ALCM)	07	1,377	453				Ū
149 0101126F	B-1B Squadrons	07	15,276	39,127				U
150 0101127F	B-2 Squadrons	07	147,390	131,647				U
151 0101213F	Minuteman Squadrons	07	63,535	113,622				U
152 0101316F	Worldwide Joint Strategic Communications	07	30,124	15,202				U
153 0101324F	Integrated Strategic Planning & Analysis Network	07	23,420	29,564				U
154 0101328F	ICBM Reentry Vehicles	07	108,625	96,313				U
156 0102110F	UH-1N Replacement Program	07	34,524	16,132				U
157 0102326F	Region/Sector Operation Control Center Modernization Program	07	9,846	771				U
158 0102412F	North Warning System (NWS)	07	96	99				U
159 0102417F	Over-the-Horizon Backscatter Radar	07		67,400				U
160 0202834F	Vehicles and Support Equipment - General	07		5,889				U
161 0205219F	MQ-9 UAV	07	103,245	79,121				U
162 0205671F	Joint Counter RCIED Electronic Warfare	07	4,080	3,111				Ū
163 0207040F	Multi-Platform Electronic Warfare Equipment	07		36,607				Ū

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

25 Mar 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number		Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c -
148 0101122F	Air-Launched Cruise Missile (ALCM)	07		453	571	U
149 0101126F	B-1B Squadrons	07		39,127	13,144	U
150 0101127F	B-2 Squadrons	07		131,647	111,990	U
151 0101213F	Minuteman Squadrons	07		113,622	69,650	U
152 0101316F	Worldwide Joint Strategic Communications	07		15,202	22,725	U
153 0101324F	Integrated Strategic Planning & Analysis Network	07		29,564	3,180	U
154 0101328F	ICBM Reentry Vehicles	07		96,313	118,616	U
156 0102110F	UH-1N Replacement Program	07		16,132	17,922	U
157 0102326F	Region/Sector Operation Control Center Modernization Program	07		771	451	U
158 0102412F	North Warning System (NWS)	07		99	76,910	U
159 0102417F	Over-the-Horizon Backscatter Radar	07		67,400	12,210	U
160 0202834F	Vehicles and Support Equipment - General	07		5,889	14,483	U
161 0205219F	MQ-9 UAV	07		79 <b>,</b> 121	98,499	U
162 0205671F	Joint Counter RCIED Electronic Warfare	07		3,111	1,747	U
163 0207040F	Multi-Platform Electronic Warfare Equipment	07		36,607	23,195	U

### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Line No	Program Element Number	Item	Act 	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c	
164	0207131F	A-10 Squadrons	07	24,274	34,224				U	
165	0207133F	F-16 Squadrons	07	197,641	225,573				U	
166	0207134F	F-15E Squadrons	07	230,299	239,616				U	
167	0207136F	Manned Destructive Suppression	07	14,462	15,855				U	
168	0207138F	F-22A Squadrons	07	642,138	647,296				U	
169	0207142F	F-35 Squadrons	07	104,264	69,365				U	
170	0207146F	F-15EX	07	79,866	107,126				U	
171	0207161F	Tactical AIM Missiles	07	18,779	32,974				U	
172	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	50,074	51,288				U	
173	0207227F	Combat Rescue - Pararescue	07	668	852				U	
174	0207247F	AF TENCAP	07	21,605	23,685				U	
175	0207249F	Precision Attack Systems Procurement	07	8,983	12,083				U	
176	0207253F	Compass Call	07	15,228	91,266				U	
177	0207268F	Aircraft Engine Component Improvement Program	07	121,206	115,715				U	
178	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	63,712	117,325				U	
179	0207327F	Small Diameter Bomb (SDB)	07	20,010	32,109				U	

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

Total Obligational Authority 25 Mar 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c -
164 0207131F	A-10 Squadrons	07		34,224	72,393	U
165 0207133F	F-16 Squadrons	07		225,573	244,696	U
166 0207134F	F-15E Squadrons	07		239,616	213,272	U
167 0207136F	Manned Destructive Suppression	07		15,855	16,695	U
168 0207138F	F-22A Squadrons	07		647,296	559 <b>,</b> 709	U
169 0207142F	F-35 Squadrons	07		69,365	70,730	U
170 0207146F	F-15EX	07		107,126	83,830	U
171 0207161F	Tactical AIM Missiles	07		32,974	34,536	U
172 0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07		51,288	52,704	U
173 0207227F	Combat Rescue - Pararescue	07		852	863	U
174 0207247F	AF TENCAP	07		23,685	23,309	U
175 0207249F	Precision Attack Systems Procurement	07		12,083	12,722	U
176 0207253F	Compass Call	07		91,266	49,054	U
177 0207268F	Aircraft Engine Component Improvement Program	07		115,715	116,087	U
178 0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07		117,325	117,198	U
179 0207327F	Small Diameter Bomb (SDB)	07		32,109	27,713	U

## Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No 	Program Element Number	Item 	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c
180	0207410F	Air & Space Operations Center (AOC)	07	50,133	90,027				Ū
181	0207412F	Control and Reporting Center (CRC)	07	15,514	9,875				U
182	0207417F	Airborne Warning and Control System (AWACS)	07	108,779	167,014				U
183	0207418F	AFSPECWAR - TACP	07	497	4,598				Ū
185	0207431F	Combat Air Intelligence System Activities	07	16,534	17,863				U
186	0207438F	Theater Battle Management (TBM) C4I	07	7,660	7,905				U
187	0207439F	Electronic Warfare Integrated Reprogramming (EWIR)	07		15,000				U
188	0207444F	Tactical Air Control Party-Mod	07	12,589	13,081				U
189	0207452F	DCAPES	07	14,135	4,305				U
190	0207521F	Air Force Calibration Programs	07	1,966	1,984				U
191	0207522F	Airbase Air Defense Systems (ABADS)	07		7,392				U
192	0207573F	National Technical Nuclear Forensics	07	380	1,971				Ū
193	0207590F	Seek Eagle	07	29,572	30,539				U
194	0207601F	USAF Modeling and Simulation	07	17,023	17,110				U
195	0207605F	Wargaming and Simulation Centers	07	6,113	7,535				U

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#### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line Ele	ogram ement mber	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	s e c
							-
180 02	07410F	Air & Space Operations Center (AOC)	07		90,027		U
181 02	07412F	Control and Reporting Center (CRC)	07		9,875	6,615	U
182 02	07417F	Airborne Warning and Control System (AWACS)	07		167,014	239,658	U
183 02	07418F	AFSPECWAR - TACP	07		4,598	5 <b>,</b> 982	U
185 02	07431F	Combat Air Intelligence System Activities	07		17,863	23,504	U
186 02	07438F	Theater Battle Management (TBM) C4I	07		7,905	5,851	U
187 02	07439F	Electronic Warfare Integrated Reprogramming (EWIR)	07		15,000	15,990	U
188 02	07444F	Tactical Air Control Party-Mod	07		13,081	10,315	U
189 02	07452F	DCAPES	07		4,305	8,049	U
190 02	07521F	Air Force Calibration Programs	07		1,984	2,123	U
191 02	07522F	Airbase Air Defense Systems (ABADS)	07		7,392		U
192 02	07573F	National Technical Nuclear Forensics	07		1,971	2,039	U
193 02	07590F	Seek Eagle	07		30,539	32,853	U
194 02	07601F	USAF Modeling and Simulation	07		17,110	19,341	U
195 02	07605F	Wargaming and Simulation Centers	07		7 <b>,</b> 535	7,004	U

## Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No 	Program Element Number		Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c	
196	0207610F	Battlefield Abn Comm Node (BACN)	07	5,450	32,008				U	
197	0207697F	Distributed Training and Exercises	07	3,260	4,007				U	
198	0208006F	Mission Planning Systems	07	80,193	96 <b>,</b> 057				U	
199	0208007F	Tactical Deception	07		14,338				U	
200	0208064F	OPERATIONAL HQ - CYBER	07	5,323	2,115				U	
201	0208087F	Distributed Cyber Warfare Operations	07	65,402	72,487				U	
202	0208088F	AF Defensive Cyberspace Operations	07	29,255	18,449				U	
203	0208097F	Joint Cyber Command and Control (JCC2)	07	35,060	79,079				U	
204	0208099F	Unified Platform (UP)	07	91,886	91,893				U	
208	0208288F	Intel Data Applications	07	1,224	493				U	
209	0301025F	GeoBase	07		2,782				U	
210	0301112F	Nuclear Planning and Execution System (NPES)	07	31,576	15,120				U	
211	0301113F	Cyber Security Intelligence Support	07		5,224				Ū	
218	0301401F	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	07	1,404	2,463				U	
219	0302015F	E-4B National Airborne Operations Center (NAOC)	07	3,940	26,331				U	

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

25 Mar 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number		Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
196 0207610F	Battlefield Abn Comm Node (BACN)	07		32,008		U
197 0207697F	Distributed Training and Exercises	07		4,007	4,628	U
198 0208006F	Mission Planning Systems	07		96,057	99,214	U
199 0208007F	Tactical Deception	07		14,338	17,074	U
200 0208064F	OPERATIONAL HQ - CYBER	07		2,115	2,347	U
201 0208087F	Distributed Cyber Warfare Operations	07		72,487	76,592	U
202 0208088F	AF Defensive Cyberspace Operations	07		18,449	8,367	U
203 0208097F	Joint Cyber Command and Control (JCC2)	07		79,079	80,740	U
204 0208099F	Unified Platform (UP)	07		91,893	107,548	U
208 0208288F	Intel Data Applications	07		493	1,065	U
209 0301025F	GeoBase	07		2,782	2,928	U
210 0301112F	Nuclear Planning and Execution System (NPES)	07		15,120		U
211 0301113F	Cyber Security Intelligence Support	07		5,224	8,972	U
218 0301401F	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	07		2,463	3,069	Ū
219 0302015F	E-4B National Airborne Operations Center (NAOC)	07		26,331	25,701	U

## Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022 (Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No 	Program Element Number	Item	Act 	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment***	е
220	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	38,298	58,165					U
221	0303140F	Information Systems Security Program	07	9,592	8,032					U
222	0303142F	Global Force Management - Data Initiative	07	1,294	452					U
223	0303248F	All Domain Common Platform	07		64,000					U
224	0303260F	Joint Military Deception Initiative	07							U
226	0304260F	Airborne SIGINT Enterprise	07	117,859	93,546					U
227	0304310F	Commercial Economic Analysis	07	3,887	3,770					U
230	0305015F	C2 Air Operations Suite - C2 Info Services	07							U
231	0305020F	CCMD Intelligence Information Technology	07	1,646	1,663					U
232	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07	19,230	15,888					U
233	0305099F	Global Air Traffic Management (GATM)	07	4,133	4,672					U
234	0305103F	Cyber Security Initiative	07	368	290					U
235	0305111F	Weather Service	07	34,618	39,228					U
236	0305114F	Air Traffic Control, Approach, and Landing System (ATCALS)	07	5 <b>,</b> 729	15,749					U

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

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item 	Act 	Supplemental Enactment E	FY 2022 Total Enactment	FY 2023 Request	S e c
220 0303131F	Minimum Essential Emergency Communications Network (MEECN)	07		58,165	41,171	U
221 0303140F	Information Systems Security Program	07		8,032	70,582	U
222 0303142F	Global Force Management - Data Initiative	07		452		U
223 0303248F	All Domain Common Platform	07		64,000		U
224 0303260F	Joint Military Deception Initiative	07			2,588	U
226 0304260F	Airborne SIGINT Enterprise	07		93,546	108,528	U
227 0304310F	Commercial Economic Analysis	07		3,770	4,542	U
230 0305015F	C2 Air Operations Suite - C2 Info Services	07			8 <b>,</b> 097	U
231 0305020F	CCMD Intelligence Information Technology	07		1,663	1,751	U
232 0305022F	ISR Modernization & Automation Dvmt (IMAD)	07		15,888	13,138	U
233 0305099F	Global Air Traffic Management (GATM)	07		4,672	4,895	U
234 0305103F	Cyber Security Initiative	07		290	91	U
235 0305111F	Weather Service	07		39,228	11,716	U
236 0305114F	Air Traffic Control, Approach, and Landing System (ATCALS)	07		15 <b>,</b> 749	8,511	U

## Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

FY 2022

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment****	е
237	0305116F	Aerial Targets	07	438	1,528					U
240	0305128F	Security and Investigative Activities	07	415	223					U
241	0305146F	Defense Joint Counterintelligence Activities	07	4,881	8,733					U
243	0305179F	Integrated Broadcast Service (IBS)	07	8,848	21,335					U
244	0305202F	Dragon U-2	07	36,593	35,846					U
245	0305206F	Airborne Reconnaissance Systems	07	133,247	108,291					U
246	0305207F	Manned Reconnaissance Systems	07	14,679	14,799					U
247	0305208F	Distributed Common Ground/Surface Systems	07	14,126	24,568					U
248	0305220F	RQ-4 UAV	07	163,278	83,124					U
249	0305221F	Network-Centric Collaborative Targeting	07	15,022	17,224					U
250	0305238F	NATO AGS	07	36,664	19,473					U
251	0305240F	Support to DCGS Enterprise	07	33,486	40,421					U
252	0305600F	International Intelligence Technology and Architectures	07	13,603	14,473					U
253	0305881F	Rapid Cyber Acquisition	07	4,098	4,326					U
254	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07	2,122	2,567					U

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

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c -
237	0305116F	Aerial Targets	07		1,528	1,365	U
240	0305128F	Security and Investigative Activities	07		223	223	U
241	0305146F	Defense Joint Counterintelligence Activities	07		8,733	8,328	U
243	0305179F	Integrated Broadcast Service (IBS)	07		21,335	22,123	U
244	0305202F	Dragon U-2	07		35,846	20,170	U
245	0305206F	Airborne Reconnaissance Systems	07		108,291	55,048	U
246	0305207F	Manned Reconnaissance Systems	07		14,799	14,590	U
247	0305208F	Distributed Common Ground/Surface Systems	07		24,568	26,901	U
248	0305220F	RQ-4 UAV	07		83,124	68,801	U
249	0305221F	Network-Centric Collaborative Targeting	07		17,224	17,564	U
250	0305238F	NATO AGS	07		19,473	826	U
251	0305240F	Support to DCGS Enterprise	07		40,421	28,774	U
252	0305600F	International Intelligence Technology and Architectures	07		14,473	15,036	U
253	0305881F	Rapid Cyber Acquisition	07		4,326	3,739	U
254	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07		2,567	2,702	U

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

Total Obligational Authority 25 Mar 2022

FY 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number		Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment**** c
255 0307577	F Intelligence Mission Data (IMD)	07	6,266	6,169				Ū
256 0401115	F C-130 Airlift Squadron	07	48,698	12,552				Ū
257 0401119	F C-5 Airlift Squadrons (IF)	07	22,742	17,507				U
258 0401130	F C-17 Aircraft (IF)	07	11,653	16,360				U
259 0401132	F C-130J Program	07	6,179	24,112				U
260 0401134	F Large Aircraft IR Countermeasures (LAIRCM)	07	4,949	5,540				U
261 0401218	F KC-135s	07	4,583	3,564				U
262 0401318	F CV-22	07	17,823	17,189				U
263 0408011	F Special Tactics / Combat Control	07	7,457	6,640				Ū
264 0708055	F Maintenance, Repair & Overhaul System	07	20,422	26 <b>,</b> 921				Ū
265 0708610	F Logistics Information Technology (LOGIT)	07	32,122	11,071				U
266 0708611	F Support Systems Development	07	10,318					U
267 0804743	F Other Flight Training	07	1,281	5,999				U
268 0808716	F Other Personnel Activities	07		5,000				U
269 0901202	F Joint Personnel Recovery Agency	07	2,019	1,841				Ū
270 0901218	F Civilian Compensation Program	07	3,093	3,560				U
271 0901220	F Personnel Administration	07	1,536	3,368				U

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

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

<sup>\*\*\*</sup>Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

<sup>\*\*\*\*</sup>Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
255 0307577F	Intelligence Mission Data (IMD)	07		6,169	6,332	U
256 0401115F	C-130 Airlift Squadron	07		12,552	407	U
257 0401119F	C-5 Airlift Squadrons (IF)	07		17,507	6,100	U
258 0401130F	C-17 Aircraft (IF)	07		16,360	25,387	U
259 0401132F	C-130J Program	07		24,112	11,060	U
260 0401134F	Large Aircraft IR Countermeasures (LAIRCM)	07		5,540	2,909	U
261 0401218F	KC-135s	07		3,564	12,955	U
262 0401318F	CV-22	07		17,189	10,121	U
263 0408011F	Special Tactics / Combat Control	07		6,640	6 <b>,</b> 297	U
264 0708055F	Maintenance, Repair & Overhaul System	07		26,921	19,892	U
265 0708610F	Logistics Information Technology (LOGIT)	07		11,071	5,271	U
266 0708611F	Support Systems Development	07				U
267 0804743F	Other Flight Training	07		5,999	2,214	U
268 0808716F	Other Personnel Activities	07		5,000		U
269 0901202F	Joint Personnel Recovery Agency	07		1,841	2,164	U
270 0901218F	Civilian Compensation Program	07		3,560	4,098	U
271 0901220F	Personnel Administration	07		3,368	3,191	U

## Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022 (Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment***	е
272 0901226F	Air Force Studies and Analysis Agency	07	1,151	1,248					U
273 0901538F	Financial Management Information Systems Development	07	6,740	4,852					U
274 0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07	39,628	54,400					U
275 1201921F	Service Support to STRATCOM - Space Activities	07	991						U
276 1202140F	Service Support to SPACECOM Activities	07	8,983	6,737					U
9999 99999999	99 Classified Programs		14,909,669	17,011,053					U
Oper	ational Systems Development		20,022,756	23,240,309					
278 0608158F	Strategic Mission Planning and Execution System - Software Pilot Program	08							U
279 0608410F	Air & Space Operations Center (AOC) - Software Pilot Program	08							U
280 0608920F	Defense Enterprise Accounting and Management System (DEAMS) - Software Pilot Pro	08							U
281 0208087F	Distributed Cyber Warfare Operations	08							U
282 0308605F	Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program	08							U

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:49:52

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

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

<sup>\*\*\*</sup>Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

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#### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act 	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
272 0901226F	Air Force Studies and Analysis Agency	07		1,248	899	U
273 0901538F	Financial Management Information Systems Development	07		4,852	5,421	U
274 0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07		54,400		U
275 1201921F	Service Support to STRATCOM - Space Activities	07				U
276 1202140F	Service Support to SPACECOM Activities	07		6,737	13,766	U
9999 999999999	Classified Programs			17,011,053	17,240,641	
Opera	ational Systems Development			23,240,309	23,090,569	
Opera 278 0608158F	Strategic Mission Planning and Execution System - Software Pilot Program	08		23,240,309	23,090,569	
_	Strategic Mission Planning and Execution System - Software Pilot	08		23,240,309		U
278 0608158F	Strategic Mission Planning and Execution System - Software Pilot Program Air & Space Operations Center	08		23,240,309	100,167	U
278 0608158F 279 0608410F	Strategic Mission Planning and Execution System - Software Pilot Program  Air & Space Operations Center (AOC) - Software Pilot Program  Defense Enterprise Accounting and Management System (DEAMS) -	08		23,240,309	100,167	U U

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

Total Obligational Authority 25 Mar 2022

Appropriation: 3600F Research, Development, Test & Eval, AF

Program Line Element No Number	Item	Act	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**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N S P.L. 117-103 e Enactment****	9
									-
283 0308606F	All Domain Common Platform (ADCP) - Software Pilot Program	08						U	J
284 0308607F	Air Force Weather Programs - Software Pilot Program	08						U	J
285 0308608F	Electronic Warfare Integrated Reprogramming (EWIR) - Software Pilot Program	08						U	J
Soft	ware and Digital Technology Pilot P	rogr							
Total Research	, Development, Test & Eval, AF		36,022,139	41,592,913				47,500	
10001 RODCUION	, severepment, rest a star, in		30,022,133	11,002,010				11,000	

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

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

<sup>\*\*\*</sup>Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

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#### Department of the Air Force FY 2023 President's Budget Exhibit R-1 FY 2023 President's Budget Total Obligational Authority

Total Obligational Authority 25 Mar 2022
(Dollars in Thousands)

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No 	Program Element Number	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c
283	0308606F	All Domain Common Platform (ADCP) - Software Pilot Program	08			190,112	U
284	0308607F	Air Force Weather Programs - Software Pilot Program	08			58,063	U
285	0308608F	Electronic Warfare Integrated Reprogramming (EWIR) - Software Pilot Program	08			5,794	U
	Softw	ware and Digital Technology Pilot P	rogr			946,437	-
Tota	l Research,	Development, Test & Eval, AF		47 <b>,</b> 500	41,640,413	44,134,301	-

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

25 Mar 2022

Summary Recap of Budget Activities	FY 2021 (Base + OCO)	FY 2022 Less Supplementals Enactment	FY 2022 Division B Division C P.L.117-43 Enactment*	Division A Division N P.L. 117-86 P.L. 117-103
Applied Research	214,494	286,505		
Advanced Technology Development		238,584		
Advanced Component Development & Prototypes	1,335,818	1,598,560		
System Development & Demonstration	3,638,636	3,167,810		
Management Support	537,965	471,142		
Operational System Development	4,624,888	5,680,275		
Software & Digital Technology Pilot Programs	155,067	154,529		
Total Research, Development, Test & Evaluation	10,506,868	11,597,405		
Summary Recap of FYDP Programs				
Research and Development				
Space	6,969,975	7,034,096		
Classified Programs	3,536,893	4,563,309		
Total Research, Development, Test & Evaluation	10,506,868	11,597,405		

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:49:52

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

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

<sup>\*\*\*</sup>Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

<sup>\*\*\*\*</sup>Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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

25 Mar 2022

Summary Recap of Budget Activities	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request
<del></del>			
Applied Research		286,505	243,737
Advanced Technology Development		238,584	564,215
Advanced Component Development & Prototypes		1,598,560	2,992,458
System Development & Demonstration		3,167,810	5,335,659
Management Support		471,142	424,943
Operational System Development		5,680,275	6,103,307
Software & Digital Technology Pilot Programs		154,529	155,053
Total Research, Development, Test & Evaluation		11,597,405	15,819,372
Summary Recap of FYDP Programs			
Research and Development			816
Space		7,034,096	10,845,198
Classified Programs		4,563,309	4,973,358
Total Research, Development, Test & Evaluation		11,597,405	15,819,372

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#### Appropriation 3600: Research, Development, Test & Evaluation, Air Force

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Small Business Innovation Research	0605502F	111	06Volume 3 - 23
Small Diameter Bomb (SDB)	0207327F	179	07Volume 3 - 789
Space Test Program (STP)	1206864F	135	06Volume 3 - 153
Special Tactics / Combat Control	0408011F	263	07Volume 3 - 1513
Specialized Undergraduate Flight Training	0604233F	136	07Volume 3 - 157
Stand In Attack Weapon	0207328F	96	05Volume 2 - 755
Strategic Mission Planning and Execution System - Software Pilot Program	0608158F	278	08Volume 4 - 1
Submunitions	0604604F	80	05Volume 2 - 593
Support Systems Development	0708611F	266	07Volume 3 - 1549
Support to DCGS Enterprise	0305240F	251	07Volume 3 - 1397
Support to Information Operations (IO) Capabilities	0303166F	127	06Volume 3 - 119
Survivable Airborne Operations Center	0604288F	47	04Volume 2 - 191
Sustainment Science and Technology (S&T)	0603199F	18	03Volume 1 - 219
Tactical AIM Missiles	0207161F	171	07Volume 3 - 713
Tactical Air Control Party-Mod	0207444F	188	07Volume 3 - 865
Tactical Data Networks Enterprise	0604281F	77	05Volume 2 - 543

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Program Element Title	Program Element Number	Line #	BA Page
Tactical Deception	0208007F	199	07Volume 3 - 985
Tech Transition Program	0604858F	53	04Volume 2 - 289
Technology Transfer	0604317F	48	04Volume 2 - 199
Test and Evaluation Support	0605807F	113	06Volume 3 - 33
Theater Battle Management (TBM) C4I	0207438F	186	07Volume 3 - 851
Threat Simulator Development	0604256F	108	06Volume 3 - 1
Three Dimensional Long-Range Radar (3DELRR)	0207455F	59	04Volume 2 - 371
Training Developments	0804772F	105	05Volume 2 - 833
Training Developments	0804772F	132	06Volume 3 - 143
U.S. Space Command Research and Development Support	1206415F	72	04Volume 2 - 487
UH-1N Replacement Program	0102110F	156	07Volume 3 - 517
USAF Modeling and Simulation	0207601F	194	07Volume 3 - 919
Unified Platform (UP)	0208099F	62	04Volume 2 - 397
Unified Platform (UP)	0208099F	204	07Volume 3 - 1063
University Research Initiatives	0601103F	2	01Volume 1 - 17
VC-25B	0401319F	103	05Volume 2 - 817
Vehicles and Support Equipment - General	0202834F	160	07Volume 3 - 557
War Reserve Materiel - Ammunition	0208030F	61	04Volume 2 - 389
Wargaming and Simulation Centers	0207605F	195	07Volume 3 - 935

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Program Element Title	Program Element Number	Line #	BA Page
Weather Service	0305111F	235	07Volume 3 - 1247
Wide Area Surveillance	0604445F	137	07Volume 3 - 181
Worldwide Joint Strategic Communications	0101316F	152	07Volume 3 - 487



Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0608158F I Strategic Mission Planning and Execution System - Software Pilot Program

Date: April 2022

COST (\$ in Millions)	Prior			FY 2023	FY 2023	FY 2023					Cost To	Total
COST (\$ III MIIIIONS)	Years	FY 2021	FY 2022	Base	oco	Total	FY 2024	FY 2025	FY 2026	FY 2027	Complete	Cost
Total Program Element	-	0.000	0.000	100.167	0.000	100.167	83.221	83.638	83.480	85.262	0.000	435.768
685029: Strategic Mission Planning and Execution System (SMPES)	-	0.000	0.000	100.167	0.000	100.167	83.221	83.638	83.480	85.262	0.000	435.768
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

The FY 2018 National Defense Authorization Act (Sections 873/874) directed the Office of the Secretary of Defense (OSD) to streamline software development. The OSD pilot initiative authorized all programmatic lifecycle funding to be tracked utilizing Budget Activity 08 (BA08) Software and Digital Technology Pilot Programs, beginning in FY 2021. Pilot programs enable the execution of modern software development practices encompassing development, procurement, modification and maintenance activities.

The Strategic Mission Planning and Execution System (SMPES) entered into the pilot program in FY 2022. SMPES, PE 0608158F, includes Research, Development, Test & Evaluation (RDT&E), Air Force, Other Procurement, Air Force (OPAF), and Operation and Maintenance (O&M), Air Force funds transferred from the following program elements (PE): 0303255F, O&M, Nuclear Planning and Execution System (NPES) Legacy sustainment; 0301112F, OPAF and RDT&E, NPES; 0101318F, O&M, Mission Planning & Analysis System (MPAS) sustainment and Global Adaptive Planning - Collaborative Information Environment (GAP-CIE); 0101313F, OPAF, Integrated Strategic Planning & Analysis Network (ISPAN); and 0101324F, RDT&E, ISPAN Increment 5.

SMPES programmatic capabilities include:

Integrated Strategic Planning and Analysis Network: ISPAN provides full-spectrum global strike, and coordinated space, missile defense, and information operations capabilities to meet both deterrent and decisive national security objectives. ISPAN is one of the most complex classified computer systems in the Department of Defense (DoD), and the only national force level planning system. Located at U.S. Strategic Command (USSTRATCOM), ISPAN develops and delivers software for nuclear strategic deliberate and adaptive planning, as well as, supports the Nuclear Posture Review and Unified Command Plan. In coordination with other Combatant Commands, Services, and appropriate U.S. Government agencies, USSTRATCOM provides operational space support, integrated missile defense, global command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter to deter and detect strategic attacks against the U.S. and its allies.

ISPAN Increment 5 (INC5): ISPAN INC5 conducts continuous, ongoing agile software development activities to foster a secure software development environment. INC5 funding enables the program office to purchase software licenses for developer tools and development environments for unclassified, secret, and top-secret agile software development. The agile software development staff maintains hardware, system configuration, storage, back-up and recovery for contractor development and systems integration. INC5 supports agile processes including code repositories, configuration management, continuous integration/continuous delivery (CI/

PE 0608158F: Strategic Mission Planning and Execution...
Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software	PE 0608158F I Strategic Mission Planning and Executio	n System - Software Pilot Progr
and Digital Technology Pilot Programs	am	

CD) pipelines, automation testing, automation validation and delivery. The agile developer environment meets classified, security regulations/criteria and promotes competition.

Mission Planning and Analysis System: MPAS consists of 17 separate subsystems that enable USSTRATCOM to accomplish its unique mission of developing Joint Staff Level I through Level IV nuclear and conventional attack options for national and theater requirements.

ISPAN Increment 4 modernized MPAS software and enabled program users to complete planning requirements in a more agile and timely manner. ISPAN INC5 succeeded ISPAN Increment 4 and provides new capabilities of resilience and consequence of execution analysis.

Global Adaptive Planning Collaborative Information Environment: GAP-CIE is a web-based, collaborative, and joint operation planning (JOP) application that enables combatant commanders and strategic leaders to rapidly integrate course of action development. GAP-CIE supports strategic and operational situational awareness of global events, crisis action planning, and campaign/contingency plan development for DoD planners. Through GAP-CIE, combatant command staffs, subordinate commands, and other agencies work in partnership to plan operations, develop orders, and share awareness dashboards online.

GAP CIE includes two functional components: GAP-CIE planning environment; and the Global Situational Awareness Tool (GSAT). The planning environment provides deliberative planning, crisis action planning, and decision support tools. GSAT allows commanders to view geospatial, temporal, and relational planning data. Collectively and collaboratively, the planning environment and GSAT within GAP-CIE enable subject matter experts to instantaneously share situational awareness perspectives.

Nuclear Planning and Execution System: NPES develops and delivers a software system to conduct nuclear command and control (NC2) adaptive planning and execution at fixed and mobile sites in real time. NPES an automated information system that supports all phases of nuclear conflict and provides for various levels of support of all command and control software engineering (C2SES) projects.

NPES Legacy encompassed cyber related investments necessary for a successful operational application/system delivery, for fixed command centers, distributive sites and mobile platforms. NPES Recapitalization (Recap) succeeded NPES Legacy and provides communication interfaces with software development, data management, software re-engineering and operations to include requirements validation and training. NPES Recap modernizes decision support, knowledge management, information visualization, an integrated-fused depiction of global battle space, and common missile event picture.

Decision Support System (DSS): DSS will develop and deliver software that directly supports POTUS. DSS will improve situational awareness, aggregate strategic-level information, and provide a common visual display that is resilient and mobile.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon systems capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605830F.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

**Appropriation/Budget Activity** 

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

R-1 Program Element (Number/Name) PE 0608158F I Strategic Mission Planning and Execution System - Software Pilot Progr

Date: April 2022

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	96.100	0.000	0.000	0.000
Current President's Budget	0.000	0.000	100.167	0.000	100.167
Total Adjustments	0.000	-96.100	100.167	0.000	100.167
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
Congressional Adds	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	-96.100			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	100.167	0.000	100.167

### **Change Summary Explanation**

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner.

FY 2022 Funding returned to Legacy PE after Denial of BA08.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Strategic Mission Planning and Execution System - Development	0.000	0.000	48.619	0.000	48.619
<b>Description:</b> Funds will be used for Section 804 Beta Phase development and fielding activities to develop software architecture for the previously listed individual programs. Funding will be used to plan and execute strategies to deliver war fighting outcomes by leveraging NDAA Section 804, and Continuous Integration/ Continuous Delivery software practices. This PE now contains four previous efforts, and have been combined into one effort under the BA-08 Pilot Program. Focusing on efficiency, all programs within the portfolio have targeted at least 20% of funding, on developing and implementing enterprise solutions which can be used across all product lines within the portfolio.					
ISPAN Increment 5: Modernizes the Mission Planning and Analysis System software (MPAS) that develops Joint Staff Level I through Level IV nuclear and conventional attack options for national and theater requirements.					
GAP-CIE: This system provides contingency and crisis action planning, allowing multiple combatant command staffs, other agencies and subordinate commands to collaborate online.					

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: April	2022	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	<b>(Name)</b> Planning ar	nd Executio	n System -	Software Pi	ilot Progr	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
NPES: Is a National C2 automated information system (AIS) that supports all I	phases of nuclear conflict.					
Decision Support Service (DSS): Directly supports the senior leader decision resituational awareness, aggregate strategic-level information, provide a commo mobile. DSS is supported by WHMO, OSD, NLCC, and CJCS.						
FY 2022 Plans: Funds will be used for Section 804 Beta Phase development and fielding active architecture for the previously listed individual programs. Focusing on efficiency have targeted at least 20% of funding on developing and implementing enterplacross all product lines within the portfolio.	cy, all programs within the portfolio					
NPES: NPES Recap developer will produce sufficient new software capability to conduct operational testing & evaluation. It will be the 4th year of SW developers Recap SW developer teams. FY22 NPES Recap will fund Program Mai software development resources to promote competition, a secure development developers to build and integrate software at the Top Secret level as part of the effort.						
DSS: Funds will be utilized to complete user interface design and implemental screens, as well as, the database interfaces that automate the interface capable to host simultaneous users and build network strings (development, test and phost site. Incorporation of USSTRATCOM data source interfaces to develop a capability to support data transport on classified (secret and top secret) domain	oility. Prototype development production) at the application and field a cross-domain solution					
ISPAN Increment 5: Funds will be used for Section 804 Beta Phase developm develop the hardware and software architecture for MPAS, Increment 5 modes stand-up, cybersecurity improvements, and continue the life-cycle procurement and software components for the MPAS effort.	rnization; to include alternate site					
FY 2023 Base Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: April	2022					
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs		<b>R-1 Program Element (Number/Name)</b> PE 0608158F <i>I Strategic Mission Planning and Execution Syster</i> am								
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total				
Funds will continue to be used for Section 804 Beta Phase development and for software architecture for the previously listed individual programs. Focusing or the portfolio have targeted at least 20% of funding on continued development a solutions which can be used across all product lines within the portfolio.	n efficiency, all programs within									
This initiative realigns funding from various appropriations for selected Softwar Software and Digital Technology Budget Activity (BA) "BA-08" in the Compone Development, Test & Evaluation (RDT&E) appropriations as a BA-08 Pilot Pro	ents' respective Research,									
NPES: NPES Recap developer will produce sufficient new software capability representatives to conduct operational testing & evaluation. it will be the 4th ye plans to reduce the NPES Recap SW developer teams. FY23 NPES Recap will Management Office (PMO) in house software development resources to promodevelopmental environment, and enable developers to build and integrate soft part of the agile software development effort.	ear of SW development with ill continue to fund Program ote competition, a secure									
DSS: Funds will be utilized to complete prototype development. Prototype dev failover capability to support NC2 operational requirements and POTUS-level also be utilized to refine and implement cybersecurity requirements, situational incorporation of classified capabilities, and integration into NPES architecture.	event conferences. Funding will									
ISPAN Increment 5: Funds will be used for Section 804 Beta Phase development and fielding activ software architecture for MPAS, Increment 5 modernization; cybersecurity imp cycle procurement of commercial based hardware and software components for	provements, and continue the life-									
FY 2023 OCO Plans: No OCO requested										
FY 2022 to FY 2023 Increase/Decrease Statement: FY 2022 funds returned to Legacy PEs after denial of BA08.										
Title: Strategic Mission Planning and Execution System - Procurement		0.000	0.000	4.956	0.000	4.956				
<b>Description:</b> Procurement will be used to execute modification and maintenar	nce activities. This includes									

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chibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force  ppropriation/Budget Activity  R-1 Program Element (Number									
	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total				
ements, and continue the life-cycle									
ed to Legacy PEs after denial of									
	0.000	0.000	46.592	0.000	46.592				
te modern software development nance activities. The SMPES									
t 1	PE 0608158F I Strategic Mission	FY 2021  B01112F (AF RDT&E and AF stainment), 0101313F (Other  t 20% of funding, on developing and hin the portfolio.  vities to develop the hardware and ements, and continue the life-cycle e effort.  fielding activities to develop the ue the life-cycle procurement of  ed to Legacy PEs after denial of  0.000  te tracked under BA08, Software / te modern software development nance activities. The SMPES	PE 0608158F / Strategic Mission Planning and Execution am  FY 2021  FY 2022  FY 2022	R-1 Program Element (Number/Name) PE 0608158F / Strategic Mission Planning and Execution System - Same  BO11112F (AF RDT&E and AF stainment), 0101313F (Other  t 20% of funding, on developing and hin the portfolio.  vities to develop the hardware and ements, and continue the life-cycle e effort.  fielding activities to develop the ue the life-cycle procurement of  ed to Legacy PEs after denial of  te tracked under BA08, Software / Ite modern software development nance activities. The SMPES	PE 0608158F / Strategic Mission Planning and Execution System - Software Pilam  FY 2021 FY 2022 FY 2023 OCO  S01112F (AF RDT&E and AF stainment), 0101313F (Other  t 20% of funding, on developing and in the portfolio.  vities to develop the hardware and ements, and continue the life-cycle e effort.  fielding activities to develop the ue the life-cycle procurement of  ed to Legacy PEs after denial of  0.000 0.000 46.592 0.000  e tracked under BA08, Software / the modern software development nance activities. The SMPES				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: April 2022									
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/Name)  PE 0608158F I Strategic Mission Planning and Execution System - Software Pilot Planning										
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total						
Focusing on efficiency, all programs within the portfolio have targeted at least 2 procuring, implementing and sustaining enterprise solutions, which can be use the portfolio.											
FY 2022 Plans: Funds will be used for Section 804 Beta Phase development and fielding activity and software architecture to include alternate site standup for MPAS, Increment improvements, and continue the life-cycle procurement of commercial based has components for the MPAS effort.	nt 5 modernization; cybersecurity										
FY 2023 Base Plans: Funds will continue to be used for Section 804 Beta Phase development and fi hardware and software architecture for Mission Planning Analysis System (MP cybersecurity improvements, and continue the life-cycle procurement of comm software components for the MPAS effort.											
FY 2023 OCO Plans: No OCO requested.											
FY 2022 to FY 2023 Increase/Decrease Statement: FY 2022 funds returned to Legacy PEs after denial of BA08.											

### D. Other Program Funding Summary (\$ in Millions)

N/A

#### Remarks

### E. Acquisition Strategy

Assistant Secretary of the Air Force (Acquisition, Technology & Logistics) (SAF/AQ) designated ISPAN Inc 5 as a FY 2016 NDAA Section 804 Rapid Fielding program and delegated Milestone Decision Authority (MDA) to the Air Force Program Executive Officer (AFPEO) Digital.

**Accomplishments/Planned Programs Subtotals** 

Increment 5 will develop and modernize software for the combatant commanders using an Agile DevOps Continuous Delivery / Continuous Integration (CD/CI) acquisition strategy with development contracts that are negotiated and awarded in a competitive environment. The program will consider the best contract options to

PE 0608158F: Strategic Mission Planning and Execution... Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/Name) PE 0608158F / Strategic Mission Planning and Executionam	
implement the Agile DevOps CD/CI strategy. Other activities are also accompurchase Requests (MIPRs).	plished through the use of various contracting vehicles suc	h as Military Interdepartmental
Continuous, ongoing agile software development activities; producing a secur development environment will meet classification/security regulations/criteria,		pace at Offutt AFB. Software
The PEO is the AF PEO Digital. Air Force Life Cycle Management Center at I authorities for ISPAN and provide contracts, legal, and financial management		FB are the contracting

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force

Appropriation/Budget Activity

3600 / 8

R-1 Program Element (Number/Name)
PE 0608158F / Strategic Mission Planning a nd Execution System - Software Pilot Program Execution System (SMPES)

am

Product Developme	nt (\$ in Mi	illions)		FY 2	2021	FY:	2022	FY 2 Ba	2023 ise	FY 2	2023 CO	FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
(ISPAN) Inc 5	Various	Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Jan 2022	25.087	Jan 2023	-		25.087	Continuing	Continuing	-
(NPES) Primary Development	Various	NG : Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Nov 2021	6.163	Nov 2022	-		6.163	Continuing	Continuing	-
(DSS) Prototype Development	C/T&M	NG: Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Nov 2021	8.819	Jan 2023	-		8.819	Continuing	Continuing	-
	<u>'</u>	Subtotal	-	0.000		0.000		40.069		_		40.069	Continuing	Continuing	N/A

	Support (\$ in Millions)					Y 2021 FY 2022		FY 2023 FY 2023 Base OCO		Total				
Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Various	Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Nov 2021	1.507	Nov 2022	-		1.507	Continuing	Continuing	, -
C/CPFF	Not specified: TBD : TBD	-	0.000		0.000	Nov 2021	4.740	Nov 2022	-		4.740	Continuing	Continuing	, -
C/CPFF	Various : Offutt AFB, NE	-	-		0.000	Apr 2022	5.704	Apr 2023	-		5.704	Continuing	Continuing	, -
C/CPAF	Various: Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Nov 2021	37.166	Nov 2022	-		37.166	Continuing	Continuing	
C/CPFF	Various : Offutt AFB, NE	-			0.000	Nov 2021	5.530	Nov 2022	-		5.530	Continuing	Continuing	-
Various	Various : Offutt AFB, NE	-	0.000		0.000	Nov 2021	1.450	Nov 2022	-		1.450	Continuing	Continuing	-
Various	TBD: Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Feb 2022	0.406	Jan 2023	-		0.406	Continuing	Continuing	
C/CPAF	KBR Wyle: Offutt AFB : Offutt AFB, NE	-	0.000		0.000	May 2022	0.110	Apr 2023	-		0.110	Continuing	Continuing	-
	Wethod & Type  Various  C/CPFF  C/CPAF  C/CPFF  Various  Various	Method & Type         Performing Activity & Location           Various         Offutt AFB : Offutt AFB, NE           C/CPFF         Not specified: TBD : TBD           C/CPFF         Various : Offutt AFB, NE           C/CPAF         Various: Offutt AFB : Offutt AFB, NE           Various         KBR Wyle: Offutt	Method & Type     Performing Activity & Location     Prior Years       Various     Offutt AFB : Offutt AFB, NE     -       C/CPFF     Not specified: TBD : TBD     -       C/CPFF     Various : Offutt AFB, NE     -       C/CPAF     Various: Offutt AFB : Offutt AFB, NE     -       Various     : Offutt AFB, NE     -       KBR Wyle: Offutt     -	Method & Type         Performing Activity & Location         Prior Years         Cost           Various         Offutt AFB : Offutt AFB : Offutt AFB, NE         -         0.000           C/CPFF         Not specified: TBD : TBD         -         0.000           C/CPFF         Various : Offutt AFB, NE         -         -           C/CPAF         Various: Offutt AFB : Offutt AFB, NE         -         0.000           Various         Various : Offutt AFB, NE         -         0.000           Various         Various : Offutt AFB : Offutt AFB : Offutt AFB, NE         -         0.000           Various         KBR Wyle: Offutt         -         0.000	Method & Type         Performing Activity & Location         Prior Years         Award Date           Various         Offutt AFB : Offutt AFB : Offutt AFB, NE         - 0.000         - 0.000           C/CPFF         Not specified: TBD : TBD         - 0.000         0.000           C/CPFF         Various : Offutt AFB, NE         0.000         0.000           C/CPAF         Various : Offutt AFB, NE         0.000         0.000           Various         Various : Offutt AFB, NE         - 0.000         0.000           Various         TBD: Offutt AFB : Offutt AFB, NE         - 0.000         - 0.000           KBR Wyle: Offutt         - 0.000         - 0.000	Method & Type         Performing Activity & Location         Prior Years         Award Date         Cost           Various         Offutt AFB : Offutt AFB, NE         -         0.000         0.000           C/CPFF         Not specified: TBD : TBD         -         0.000         0.000           C/CPFF         Various : Offutt AFB, NE         -         -         0.000           C/CPAF         Various: Offutt AFB : Offutt AFB, NE         -         0.000         0.000           Various         Offutt AFB, NE         -         0.000         0.000           Various         TBD: Offutt AFB : Offutt AFB, NE         -         0.000         0.000           Various         TBD: Offutt AFB, NE         -         0.000         0.000           C/CPAE         KBR Wyle: Offutt         -         0.000         0.000	Method & Type         Performing Activity & Location         Prior Years         Cost Date         Award Date         Award Date           Various         Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Nov 2021           C/CPFF         Not specified: TBD : TBD         -         0.000         0.000         Nov 2021           C/CPFF         Various : Offutt AFB, NE         -         -         0.000         Apr 2022           C/CPAF         Various : Offutt AFB, NE         -         0.000         0.000         Nov 2021           Various         Various : Offutt AFB, NE         -         -         0.000         Nov 2021           Various         Various : Offutt AFB, NE         -         0.000         0.000         Nov 2021           Various         Warious : Offutt AFB : Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Nov 2021           Various         TBD: Offutt AFB, NE         -         0.000         0.000         Feb 2022           C/CPAE         KBR Wyle: Offutt         -         0.000         0.000         0.000	Method & Type         Performing Activity & Location         Prior Years         Cost         Award Date         Cost         Award Date         Cost           Various         Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Nov 2021         1.507           C/CPFF         Not specified: TBD : TBD         -         0.000         0.000         Nov 2021         4.740           C/CPFF         Various : Offutt AFB, NE         -         -         0.000         Apr 2022         5.704           C/CPAF         Various : Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Nov 2021         37.166           Various         Various : Offutt AFB, NE         -         -         0.000         Nov 2021         5.530           Various         TBD: Offutt AFB, NE         -         0.000         0.000         Nov 2021         1.450           Various         TBD: Offutt AFB, NE         -         0.000         0.000         Feb 2022         0.406           C/CPAE         KBR Wyle: Offutt         -         0.000         0.000         May 2022         0.110	Method & Type         Performing Activity & Location         Prior Years         Cost         Award Date         Cost         Award Date         Cost         Award Date           Various         Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Nov 2021         1.507         Nov 2022           C/CPFF         Not specified: TBD : TBD         -         0.000         0.000         Nov 2021         4.740         Nov 2022           C/CPFF         Various : Offutt AFB, NE         -         -         0.000         Apr 2022         5.704         Apr 2023           C/CPAF         Various : Offutt AFB, NE         -         0.000         0.000         Nov 2021         37.166         Nov 2022           Various         Various : Offutt AFB, NE         -         0.000         0.000         Nov 2021         1.450         Nov 2022           Various         TBD: Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Feb 2022         0.406         Jan 2023           C/CPAE         KBR Wyle: Offutt         -         0.000         0.000         May 2022         0.110         Apr 2023	Method & Type         Performing Activity & Location         Prior Years         Cost Date         Award Date         Cost Date         Award Date         Cost Date         Award Date         Cost Date	Method & Type         Performing Activity & Location         Prior Years         Cost         Award Date         Cost         Date         Cost         Date         Cost         Date         Cost         Date         Cost         Date         Date         Cost         Date         Date         Date         Cost         Date         Date	Method & Type         Performing Activity & Location         Prior Years         Cost         Award Date         Award Date	Method & Type         Performing Activity & Location         Prior Years         Cost         Award Date         Cost         Award Date         Cost         Award Date         Cost To Complete           Various         Offutt AFB : Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Nov 2021         1.507         Nov 2022         -         1.507         Continuing           C/CPFF         Not specified: TBD : TBD         -         0.000         0.000         Nov 2021         4.740         Nov 2022         -         4.740         Continuing           C/CPFF         Various : Offutt AFB, NE         -         -         0.000         Nov 2022         5.704         Apr 2023         -         5.704         Continuing           C/CPAF         Various : Offutt AFB, NE         -         0.000         Nov 2021         37.166         Nov 2022         -         37.166         Continuing           Various         Various : Offutt AFB, NE         -         0.000         Nov 2021         5.530         Nov 2022         -         5.530         Continuing           Various         Offutt AFB, NE         -         0.000         0.000         Nov 2021         1.450         Nov 2022         -         1.450         Continuing	Method & Type         Performing Activity & Location         Prior Years         Cost         Award Date         Cost         Total Cost           Various         Offutt AFB : Offutt AFB, NE         -         0.000         0.000         Nov 2021         1.507         Nov 2022         -         1.507         Continuing         Contin

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2023 Air F	orce								Date:	April 202	2	
<b>Appropriation/Budg</b> 3600 / 8	PE 060	8158F / S	Strategic I	lumber/Na Mission Pl oftware Pilo	anning a	685029	Ì Strategi	mber/Name) ategic Mission Planning and ystem (SMPES)							
Support (\$ in Million	ıs)			FY 2	021	FY 2	2022		2023 ase	FY 2		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
(DSS) Engineering Support	SS/ Various	MITRE: Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Feb 2022	0.406	Oct 2022	-		0.406	Continuing	Continuing	_
		Subtotal	-	0.000		0.000		57.019		-		57.019	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ions)		FY 2	021	FY 2	2022		2023 ase	FY 2					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Test and Evaluation Item (ISPAN)	Various	Not specified. : TBD	-	0.000		0.000	Nov 2021	0.086	Nov 2022	-		0.086	Continuing	Continuing	_
(NPES) T&E	C/CPAF	Various: Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Dec 2021	0.617	Dec 2022	-		0.617	Continuing	Continuing	-
		Subtotal	-	0.000		0.000		0.703		-		0.703	Continuing	Continuing	N/A
Management Servic	es (\$ in M	lillions)		FY 2	021	FY 2	2022		2023 ase	FY 2		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Systems Engineering and Operations (ISPAN)	Various	Offutt AFB : Offutt AFB, NE	-	0.000		0.000	Nov 2021	2.376	Nov 2022	-		2.376	Continuing	Continuing	_
		Subtotal	-	0.000		0.000		2.376		-		2.376	Continuing	Continuing	N/A
			Prior Years	FY 2	021	FY 2	2022		2023 ase	FY 2		FY 2023 Total	Cost To	Total Cost	Target Value of Contract
-		Project Cost Totals	_	0.000		0.000		100.167		_		100.167	Continuing	Continuing	N/A

PE 0608158F: Strategic Mission Planning and Execution...

Air Force

FY2022 funds returned to Legacy PEs after denial of BA08

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Exhibit R-4, RDT&E Schedule Profile: PB 202	3 Air F	orce																					Date	: Ap	ril 2	022	<u>)</u>		
Appropriation/Budget Activity 3600 / 8	, , , , , , , , , , , , , , , , , , , ,					ning a 685029 I Strategic Mission Planning ar						and																	
		FY	2021			FY	202	2		F	Y 202	3		FY	202	24		FY	20	25		F	FY 2	026			FY 2	2027	,
	1	2	3	4	1	2	3	4	1		2 3	4	1	2	3	4	1	l 2	: ;	3 4	1	1	2	3	4	1	2	3	4
SMPES						,								,		'													
ISPAN Inc 5 - continuous agile software development, rapid fielding																													
NPES - continuous agile software development, rapid fielding																													
DSS Support																													
GAP-CIE - continuous agile software development, rapid fielding																													

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force			Date: April 2022
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 8	PE 0608158F / Strategic Mission Planning a	685029 / S	Strategic Mission Planning and
	nd Execution System - Software Pilot Progr	Execution	System (SMPES)
	am		

## Schedule Details

	St	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
SMPES					
ISPAN Inc 5 - continuous agile software development, rapid fielding	1	2022	4	2027	
NPES - continuous agile software development, rapid fielding	1	2022	4	2027	
DSS Support	1	2022	4	2027	
GAP-CIE - continuous agile software development, rapid fielding	1	2022	4	2027	

PE 0608158F: Strategic Mission Planning and Execution... Air Force

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force Date: April 2022

Appropriation/Budget Activity R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software PE 0608410F I Air & Space Operations Center (AOC) - Software Pilot Program

and Digital Technology Pilot Programs

												,
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	177.827	0.000	177.827	171.359	172.969	176.854	180.788	Continuing	Continuing
684596: AOC - Software Pilot Program	-	0.000	0.000	177.827	0.000	177.827	171.359	172.969	176.854	180.788	Continuing	Continuing
Quantity of RDT&E Articles	_	-	-	-	-	-	-	-	-	-		

#### Note

In FY 2023, PE 0608410F, Air & Space Operations Center (AOC), Project 684596, AOC WS Modifications, was transferred from RDT&E, AF, PE 0207410F, Air & Space Operations Center (AOC), Project 674596, AOC WS Modifications, OPAF PE 0207410F, Air & Space Operations Center (AOC), Line Item 834530, AOC, and OMAF Operating Forces, Activity Group, Air Operations, Sub-Activity Group 11C, Combat Enhances Forces, in order to a participate in DoD's Budget Activity 08 (BA08) for Software and Digital Technology Pilot Program.

#### A. Mission Description and Budget Item Justification

The FY 2018 National Defense Authorization Act (Sections 873/874) directed the Office of the Secretary of Defense (OSD) to streamline software development. The Air & Space Operations Center (AOC) - Software Pilot Program is an OSD pilot initiative in which all lifecycle funding is tracked under Budget Activity 08 (BA08), Software and Digital Technology Pilot Programs, beginning in FY 2021. Pilot programs enable the execution of modern software development practices encompassing development, procurement, modification and maintenance activities. This program includes RDT&E, procurement, and Operations and Maintenance funds transferred from PE 0207410F, Air & Space Operations Center (AOC).

The AOC WS, AN/USQ-163 Falconer, the senior element of the Theater Air Control System (TACS), is the weapon system that the Commander, Air Force Forces (COMAFFOR) provides the Combined/Joint Force Air Component Commander (C/JFACC) for planning, executing, and assessing theater-wide air and space operations. The C/JFACC provides air, space and cyber support to the Combined/Joint Forces Commander (C/JFC) by coordinating, deconflicting, and assessing the progress of various weapon systems to advance the C/JFC's campaign. The AOC WS develops operations strategy and planning documents. The weapon system also disseminates tasking orders; executes day-to-day peacetime and combat air, space and cyber operations; and provides rapid reaction to immediate situations by exercising positive control of friendly forces. This program is part of the overarching Kessel Run portfolio and is dependent on the All Domain Common Platform (ADCP). The ADCP provides an extensible cloud-based Infrastructure and Platform as a Service (laaS/PaaS) hosting platform built to deliver highly resilient mission applications and data to Airmen deployed around the world.

In FY 2023, funding supports continued software engineering capacity required for AOC WS Modifications to support and enable the transition from legacy systems (e.g., Theater Battle Management Core System - Force Level (TBMCS FL) and AOC 10.1) to Block 20 modernized capabilities while delivering, enabling and operating an extensible cloud-based Infrastructure and Platform as a Service (laaS/PaaS) hosting platform. AOC WS Modifications are required for the AOC to keep pace with evolving COTS/GOTS components, DoD directives, support operational energy security and efficiency objectives, changes in the underlying IT environment, and to remain interoperable, certified, supportable, and compliant through software engineering solutions, integration, testing, fielding, training, and sustainment of new capabilities and upgrades to the AOC WS. Also in FY 2023, AOC WS Modifications activities evolve the AOC utilizing Agile Methodologies and embracing DevOps

PE 0608410F: Air & Space Operations Center (AOC) - So... Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Date: April 2022

#### Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0608410F I Air & Space Operations Center (AOC) - Software Pilot Program

practices to deliver improved capabilities in support of mission requirements at Geographic and Global (formerly Functional) AOCs, as well as Support and Manpower Augmentation units, keeping the AOC current and interoperable with the Combatant Commands (CCMDs), cyber requirements, and next generation weapon systems/ weapons.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In PY \$0.000M was expended for civilian pay expenses in this program element, and in CY \$0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	186.915	0.000	0.000	0.000
Current President's Budget	0.000	0.000	177.827	0.000	177.827
Total Adjustments	0.000	-186.915	177.827	0.000	177.827
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	-186.915			
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	177.827	0.000	177.827

### **Change Summary Explanation**

FY2023: The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY 2023 cannot be made in a relevant manner.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: AOC WS Modifications - Development	0.000	0.000	79.549	0.000	79.549
<b>Description:</b> Plan and execute strategies to deliver war fighting outcomes by leveraging commercial best practices for agile software development, scale a modern Infrastructure as a Service/Platform as a Service (laaS/PaaS) solution to the AOC WS enterprise, implement improved solutions for platform architecture and					

PE 0608410F: Air & Space Operations Center (AOC) - So... Air Force Page 2 of 10

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: April	2022	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/l PE 0608410F / Air & Space Opera		er (AOC) - S	Software Pil	ot Program	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Continuous Integration/Continuous Delivery (CI/CD) pipeline, enable objective and security efficiencies and maintain continuous Authority to Operate (ATO). solutions by leveraging agile engineering methodologies to engineer, integrate AOC WS leveraging test-driven development. Utilize CI/CD processes to provideliver enhanced operational C2 capabilities including support of multi-domain	Conduct software engineering e, and test modifications to the de engineering solutions, test, and					
FY 2022 Plans: See PE 0207410F, Air & Space Operations Center (AOC), Project Number 67-	4596, AOC WS Modifications.					
FY 2023 Base Plans: - Enable the continued transition from legacy applications such as TBMCS FL Modernized capabilities - Continue supporting software engineering capacity required for AOC WS Mofrom legacy AOC 10.1 baseline to AOC WS Block 20 modernized capabilities - Continue to optimize Operational Energy (aviation fuel) use and increase consoftware development						
FY 2023 OCO Plans: N/A						
FY 2022 to FY 2023 Increase/Decrease Statement: Funding increased due to transfer from RDT&E, AF, PE 0207410F, Air & Space Project 674596, AOC WS Modifications.	ce Operations Center (AOC),					
Title: AOC WS Modifications - Procurement		0.000	0.000	19.142	0.000	19.142
<b>Description:</b> Provides hardware, software, technical documents, fielding supp Replacement (CER) (e.g., replacing end of life/end of support Direct Mission S components), core radio system and initial training to standardize the AOC WS supportable and compliant (e.g., certification and accreditation). Also includes cyber security improvements and existing 3rd Party modernized improvements	Support (DMS) and 3rd Party S to keep it interoperable, integration, test and fielding for					
FY 2022 Plans: See PE 0207410F, Air & Space Operations Center (AOC), Line Item 834530, A FY 2023 Base Plans:	AOC.					
		•	•	•		'

PE 0608410F: Air & Space Operations Center (AOC) - So... Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: April	2022	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number PE 0608410F / Air & Space Oper		er (AOC) - S	Software Pil	ot Program	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<ul> <li>Integration/fielding of improvements/upgrades of existing 3rd Party application replacement applications, CER and baseline updates. Address commercial encincluding components associated with C2 applications (3rd Party COTS/GOTS - Support moving the AOC WS toward a cloud-based commercially managed In Service (laaS/ PaaS)</li> <li>Provide Baseline Releases, periodic maintenance upgrades, emergency fixed and other activities (e.g., testing activities)</li> </ul>	d-of-life and DMS components ) nfrastructure and Platform as a					
FY 2023 OCO Plans: N/A						
FY 2022 to FY 2023 Increase/Decrease Statement: Funding increased due to transfer from OPAF PE 0207410F, Air & Space Ope 834530, AOC.	rations Center (AOC), Line Item					
Title: AOC WS Modifications - Sustainment		0.000	0.000	79.136	0.000	79.136
<b>Description:</b> Operations and Maintenance efforts sustain the fielded AOC WS applications and provides the foundation to transition to AOC WS Block 20. Su such as TBMCS for joint-partner interoperability and enterprise use cases as re 20. Provides critical integration and sustainment support to legacy 3rd party sy premise technical support and assistance, addresses cybersecurity requirement renewals, release engineering services, help desk activities, testing operational security requirements, quality assurance, configuration management, and documents.						
<b>FY 2022 Plans:</b> See OMAF Operating Forces, Activity Group, Air Operations, Sub-Activity Group, Forces.	up 11C, Combat Enhances					
FY 2023 Base Plans: - Continue sustainment and integration activities to the current AOC WS baseli Operational C2 presentation of capability as it is delivered	ne and support Block 20					
FY 2023 OCO Plans: N/A						
FY 2022 to FY 2023 Increase/Decrease Statement:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Date: April 2022

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0608410F I Air & Space Operations Center (AOC) - Software Pilot Program

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Funding increased due to transfer from OMAF Operating Forces, Activity Group, Air Operations, Sub-Activity Group 11C, Combat Enhances Forces.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	177.827	0.000	177.827

#### D. Other Program Funding Summary (\$ in Millions)

			FY 2023	FY 2023	FY 2023					Cost To	
<u>Line Item</u>	FY 2021	FY 2022	<b>Base</b>	OCO	<u>Total</u>	FY 2024	FY 2025	FY 2026	FY 2027	Complete	<b>Total Cost</b>
• OPAF 03 834530: Air & Space	15.383	23.019	2.611	-	2.611	0.000	0.000	0.000	0.000	Continuing	Continuing
Operations Center (AOC)											
<ul> <li>OPAF 03 833140: Strategic</li> </ul>	0.000	3.541	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Command And Control											
• RDTE 07 0303248F: <i>All</i>	0.000	64.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Domain Common Platform											
• RDTE 08 0308606F: All	0.000	0.000	190.112	-	190.112	175.196	190.889	187.666	188.307	Continuing	Continuing
Domain Common Platform										_	

(ADCP) - Software Pilot Program

#### Remarks

### E. Acquisition Strategy

The acquisition strategy builds on agile software engineering solutions and modification of existing capabilities using evolutionary acquisition to standardize and modify the AOC WS. The initial capability was AOC WS Increment 10.0, which fielded the 10.0 configuration to five operational sites, plus a Help Desk and a Formal Training Unit. The second increment, Increment 10.1, upgraded these locations to an integrated baseline and fielded the baseline to additional operational and reserve units worldwide. AOC WS Modifications will leverage commercial best practices of Agile DevOps to scale out a modern virtual private cloud to the AOCs and scale up additional software product teams in support of retiring TBMCS FL and other legacy mission critical applications allowing for eventual disposal of the AOC 10.1 infrastructure. This enables dynamic resource allocation based on current warfighter needs. AOC operates under authority FY20 NDAA, Section 800, Software Acquisition Pathway, following DoDI 5000.87, Operation of Software Acquisition Pathway Guidance. The desired end state is continuous delivery of all AOC WS software.

AOC WS Modifications will leverage a modular contracting strategy that focuses on evolving needs, continuous market research and streamlined solicitation procedures. AOC Modifications leverages both small and large business contracts for specialized services and enterprise AOC support to adopt commercial best practices for software development and to scale out a modern Infrastructure as a Service/Platform as a Service (laaS/PaaS) solution. Activities are also accomplished via Military Interdepartmental Purchase Requests (MIPR). Additionally, significant technical expertise will be sought after via modular contracting approach and provided by

PE 0608410F: Air & Space Operations Center (AOC) - So... Air Force Page 5 of 10

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: April 2022									
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/Name) PE 0608410F I Air & Space Operations Center (AOC) -	Software Pilot Program									
and Digital Technology Pilot Programs  Government Agencies, DoD Laboratory, Federally Funded Research and Dev Support Services contractors as well as commercial industry partners.		-									

PE 0608410F: Air & Space Operations Center (AOC) - So... Air Force

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force

Appropriation/Budget Activity
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PE 0608410F / Air & Space Operations Cen

Date: April 2022

Project (Number/Name)
684596 / AOC - Software Pilot Program

PE 0608410F I Air & Space Operations Cen | 684596 I AOC - Softwater (AOC) - Software Pilot Program

Product Development (\$ in Millions)		FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AOC WS Modifications Development	C/Various	Various : Multiple	-	-		-		48.288	Dec 2022	-		48.288	0.000	48.288	48.288
AOC WS Modifications Materials	C/Various	Various : Mutiple	-	-		-		10.530	Dec 2022	-		10.530	0.000	10.530	10.530
AOC WS Modifications Sustainment	C/Various	Various : Multiple	-	-		-		41.524	Dec 2022	-		41.524	0.000	41.524	41.524
AOC WS Modifications Other Transaction	Various	Pivotal : Multiple	-	-		-		0.000		-		0.000	0.000	0.000	0.000
		Subtotal	-	-		-		100.342		-		100.342	0.000	100.342	N/A

Support (\$ in Millions	s)			FY	2021	FY:	2022	FY 2	2023 Ise	FY 2	2023 CO	FY 2023 Total	-		
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AOC WS Modifications Direct Mission Support	C/TBD	Various : Various	-	-		-		31.538	Dec 2022	-		31.538	0.000	31.538	31.538
AOC WS Modifications Civilian Direct Cite Authorizations for Product Development	Allot	AFLCMC/FZA : TBD	-	-		-		14.637	Oct 2022	-		14.637	0.000	14.637	-
		Subtotal	-	-		-		46.175		-		46.175	0.000	46.175	N/A

Management Servic	es (\$ in M	illions)		FY 2	2021	FY 2	2022		2023 ase	FY 2	2023 CO	FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AOC WS Modifications Engineering Services	Various	Various : Various	-	-		-		4.724	Oct 2022	-		4.724	0.000	4.724	4.724
AOC WS Modifications Program Support	C/Various	Various : Various	-	-		-		26.586	Dec 2022	-		26.586	0.000	26.586	26.586
		Subtotal	-	-		-		31.310		-		31.310	0.000	31.310	N/A

PE 0608410F: Air & Space Operations Center (AOC) - So... Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2023 Air F	orce				Date	: April 202	2	
Appropriation/Budget Activity 3600 / 8	PE 0608410F	<b>Element (Number/N</b> I Air & Space Opera ftware Pilot Program	<b>Project (Number/Name)</b> 684596 / AOC - Software Pilot Program						
	Prior Years FY 2021		FY 2022	FY 2023 Base	FY 2		Cost To	Total Cost	Target Value of Contract
Project Cost Totals	-	-	-	177.827	-	177.827	0.000	177.827	N/A
Remarks									

PE 0608410F: Air & Space Operations Center (AOC) - So... Air Force UNCLASSIFIED
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Exhibit R-4, RDT&E Schedule Profile: Pl	B 2023 Air Force Date: April 2022
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0608410F I Air & Space Operations Center (AOC) - Software Pilot Program  Project (Number/Name) 684596 I AOC - Software Pilot Program
	FY 2021 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027
	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4
AOC WS Modifications	

AOC WS Modifications Kessel Run

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force		Date: April 2022	
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0608410F I Air & Space Operations Center (AOC) - Software Pilot Program	- , (	umber/Name) IOC - Software Pilot Program

### Schedule Details

	St	art	nd	
Events by Sub Project	Quarter	Year	Quarter	Year
AOC WS Modifications				
AOC WS Modifications Kessel Run	1	2023	4	2027

#### **Note**

See PE 0207410F, Air & Space Operations Center (AOC), Project Number 674596, AOC WS Modifications for prior years development events.

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Date: April 2022

#### Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0608920F I Defense Enterprise Accounting and Management System (DEAMS) - Soft ware Pilot Pro

COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	136.202	0.000	136.202	139.000	141.596	143.246	146.432	Continuing	Continuing
685178: DEAMS Continuous Capability Development	-	0.000	0.000	136.202	0.000	136.202	139.000	141.596	143.246	146.432	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### Note

In FY 2023, DEAMS Continuous Capability Development (CCD) budget controls have been realigned from Research, Development, Test & Evaluation (RDT&E) Program Element (PE) 0901554F Project 675178, Operations & Maintenance (O&M) AG/SAG 042A, and Other Procurement Line Item 834470 and consolidated into Budget Activity 8 in PE 0608920F in order to participate in the DoD's Software & Digital Technology Pilot Program.

#### A. Mission Description and Budget Item Justification

The FY 2018 NDAA Sections 873/874 directed OSD to streamline software development. In FY 2022, DEAMS was included in an OSD pilot initiative in which all lifecycle funding will be tracked under BA08, Software and Digital Technology Pilot Programs. No FY 2022 Pilot programs were initiated, resulting in the shift of the request from FY 2022 to FY 2023. Pilot programs will test the ability to execute modern software development practices encompassing development, procurement, modification and maintenance activities. The DEAMS pilot program in PE 0608920F, RDT&E, Air Force, BA08 includes Air Force RDT&E, Other Procurement, and Operations & Maintenance funds transferred from PE 0901554F.

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 is deployed at 170 installations world-wide supporting 17,000 users at all Air Force Major Commands, within the U.S. Space Force, and at 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 planning to increase DEAMS usage within the acquisition community to include acquisition program management offices, laboratories, test centers, and air logistics complexes. These deployments will add an additional 4,500 users for a total of 21,500 users.

DEAMS is compliant with the Clinger-Cohen Act and the DoD's Business Enterprise Architecture (BEA). DEAMS is the key to DAF's compliance with the Financial Improvement and Audit Readiness (FIAR) requirement. This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

PE 0608920F: Defense Enterprise Accounting and Manage...
Air Force

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R-1 Line #280

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Date: April 2022

#### Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0608920F I Defense Enterprise Accounting and Management System (DEAMS) - Soft ware Pilot Pro

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2021 0.212M was expended for civilian pay expenses in this program element, and in FY 2022 0.216M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	135.263	0.000	0.000	0.000
Current President's Budget	0.000	0.000	136.202	0.000	136.202
Total Adjustments	0.000	-135.263	136.202	0.000	136.202
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
Congressional Adds	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	-135.263			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	136.202	0.000	136.202

## **Change Summary Explanation**

FY 2022 and prior years funding was executed in PE 0901554F - Project Number 675178, PE 0901554F - Line 834470, and OMAF Operating Forces, Activity Group, Service-wide Activities, Sub-Activity Group 42A, Administration.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: DEAMS Continuous Capability Development (CCD) Product Development	0.000	0.000	57.965	0.000	57.965
<b>Description:</b> DEAMS CCD system capabilities will be developed and enhanced through completion of iterative development cycles in accordance with an Agile software development strategy. Development activities include requirements analysis, design, build, test, data conversion, migration from legacy system as required, implementation into the DEAMS baseline, and the resolution of deficiency reports and defects. Activities also include various Advisory and Assistance Services (A&AS) and Program Management Administration (PMA) activities to support the aforementioned development efforts.					

PE 0608920F: Defense Enterprise Accounting and Manage... Air Force

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R-1 Line #280

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: April	2022					
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/ PE 0608920F / Defense Enterpris ware Pilot Pro		ng and Mar	fanagement System (DEAMS) - So						
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total				
FY 2022 Plans: See PE 0901554F, Defense Accounting and Management System (DEAMS), Continuous Capability Development.	Project Number 675178, DEAMS									
FY 2023 Base Plans:  - Will continue incremental planning and support initiatives to organize CCD bacapability-delivering epics.  - Will continue to develop additional Business Intelligence (BI) functionality to expanding the foliation of the f	enhance reporting capability of bring DEAMS into compliance mited to implementing Military iting systems, and developing by pilot program to more effectively Adaptive, Relevant Testing ease product quality; and test, or defects and add enhancements in a for development and delivery of the End of Day/End of Month solution of DEAMS and arg improved software development									

PE 0608920F: *Defense Enterprise Accounting and Manage...*Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: April	2022	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/ PE 0608920F / Defense Enterpris ware Pilot Pro		ng and Man	agement Sy	/stem (DEA	MS) - Soft
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
N/A						
FY 2022 to FY 2023 Increase/Decrease Statement: - There is no significant increase/decrease in baseline funding between FY 2022. For FY 2022, see PE 0901554F, Defense Accounting and Management Syst 675178, DEAMS Continuous Capability Development.						
Title: Deployment		0.000	0.000	1.842	0.000	1.842
<b>Description:</b> DEAMS will ultimately deploy to approximately 4,500 additional f major acquisition programs, sustainment centers, reimbursable laboratories, a Space Force locations. The system is currently deployed to all DAF locations, deployments will complete the functionality at these locations. <b>FY 2022 Plans:</b>	nd launch facilitates at 15 Air and in full or partial capacity; all future					
See PE 0901554F, Defense Accounting and Management System (DEAMS),	ine Item 834470, DEAMS.					
FY 2023 Base Plans: - Will purchase software licenses for scheduled FY 2023 deployments (exact optionity) - Will deploy Misc. Payments capability to 64 ANG, USAFE, PACAF, and AFM						
FY 2023 OCO Plans: N/A						
FY 2022 to FY 2023 Increase/Decrease Statement: - Funding decreased due to a reduction in software license buys in FY 2023 For FY 2022, see PE 0901554F, Defense Accounting and Management Syst DEAMS.	em (DEAMS), Line Item 834470,					
Title: DEAMS Continuous Capability Development (CCD) Support and Sustain	nment	0.000	0.000	76.395	0.000	76.395
<b>Description:</b> DEAMS capabilities will be sustained through numerous Operation to execute an iterative steady-state software sustainment process. Sustainment operations and support, production environment management, system perform	nt activities include day-to-day					

PE 0608920F: *Defense Enterprise Accounting and Manage...*Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: Apri	l 2022								
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/ PE 0608920F / Defense Enterpris ware Pilot Pro	er/Name) orise Accounting and Management System (DEAMS) -											
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total							
also include various A&AS and PMA activities to support the aforementioned s operational support at multiple Data Centers (DISA/Oracle).	ustainment operations as well as												
FY 2022 Plans: See OMAF Operating Forces, Activity Group, Service-wide Activities, Sub-Acti	vity Group 42A, Administration.												
<ul> <li>Will obtain Capability Support ATP and transition to BCAC Capability Support Will continue to release new capability into production using Agile methodology.</li> <li>Will continue to optimize performance by conducting tuning activities and remedial will continue to deploy fixes to address defects and user-identified problems.</li> <li>Will continue to ensure system security and support the Risk Management From tinuous monitoring activities.</li> <li>Will continue to support 24/7 operations for current and expanding global uses such as Help Desk operations, functional expertise, technical support, and lice.</li> <li>Will continue to improve system efficiency by supporting continuous processed delivery of capabilities (Dev/Sec/Ops) and posturing the production system and will continue to onboard Scaled Agile Framework (SAFe) 5.0 methodology and scalable requirements.</li> <li>Will continue production environment migration to Oracle Cloud Infrastructure.</li> <li>Will continue with Oracle eBusiness Suite 12.2.10 upgrade.</li> <li>Will upgrade DB/SOA Environments.</li> <li>Will upgrade DB/SOA Environments.</li> <li>Will upgrade Privileged Access Management.</li> <li>Will upgrade Privileged Access Management.</li> <li>FY 2023 OCO Plans:</li> <li>N/A</li> <li>FY 2022 to FY 2023 Increase/Decrease Statement:</li> <li>There is no significant increase/decrease in baseline funding between FY 2023.</li> </ul>	gy and established cadence noving unused code and interfaces amework (RMF) through r community through activities are maintenance as for secure development and hitecture for cloud migration and continue to implement the												

PE 0608920F: *Defense Enterprise Accounting and Manage...*Air Force

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#### Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0608920F I Defense Enterprise Accounting and Management System (DEAMS) - Soft ware Pilot Pro

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
- For FY 2022, see OMAF Operating Forces, Activity Group, Service-wide Activities, Sub-Activity Group 42A, Administration.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	136.202	0.000	136.202

## D. Other Program Funding Summary (\$ in Millions)

	• .	•									
			FY 2023	FY 2023	FY 2023					Cost To	
<u>Line Item</u>	FY 2021	FY 2022	<b>Base</b>	000	<u>Total</u>	FY 2024	FY 2025	FY 2026	FY 2027	Complete	<b>Total Cost</b>
<ul> <li>OPAF 03 834470: Defense</li> </ul>	1.078	3.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.181
Enterprise Accounting & Mgt Sys											
• RDTE 07 0901554F:	39.628	54.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	94.028
Defense Enterprise Acntna											

Defense Enterprise Acntng and Mgt Sys (DEAMS)

#### Remarks

FY 2022 and prior years funding was executed in PE 0901554F - Project Number 675178, PE 0901554F - Line 834470, and OMAF Operating Forces, Activity Group, Service-wide Activities, Sub-Activity Group 42A, Administration.

## E. Acquisition Strategy

In FY 2021, the Department of the Air Force declared Increment I complete. DEAMS will transition to the Capability Support Phase in FY 2023. Implementation is accomplished via continuous capability development as requirements are prioritized by the associated Program and Functional Management Offices and organized in the requirements backlog. DEAMS capabilities are developed and sustained in accordance with the selected Agile software implementation strategy. Development activities include requirements analysis, design, build, test, data conversion, migration from legacy system as required, implementation into the DEAMS baseline, and the resolution of deficiency reports and defects. Sustainment activities include day-to-day operations and support, production environment management, and numerous system performance improvement initiatives. This strategy has been refined to enable continual enhancements and process improvements for the life of the system.

The DEAMS program will develop functionality on cadence and release on demand. User experience and mission impact will be considered when determining release dates during the execution cycle.

PE 0608920F: Defense Enterprise Accounting and Manage...
Air Force

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Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2023 Air F	orce					Date: April 2022									
<b>Appropriation/Budge</b> 3600 / 8	t Activity	/				PE 060 ing and	ogram Ele 8920F / El Manager Pilot Pro	(Number/Name) I DEAMS Continuous Capability oment										
Product Developmer	nt (\$ in M	illions)		FY 2	2021	FY :	2022		2023 ase	FY 2		FY 2023 Total						
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac			
DEAMS: Rapid Acquisition System Integrator	C/FFP	CACI-ISS, Inc. : Chantilly, VA	-	-		-		10.000	Dec 2022	-		10.000	Continuing	Continuing	-			
DEAMS: Direct mission Support (DBA Support, Architecture Services, FMO SME Support, HW/ SW)	Various	Various : Various	-	-		-		37.881	Jan 2023	,		37.881	Continuing	Continuing	-			
		Subtotal	-	-		-		47.881		-		47.881	Continuing	Continuing	N/			
Support (\$ in Millions	s)			FY 2	2021	FY	2022		2023 ase	FY 2		FY 2023 Total						
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract			
DEAMS: Rapid Acquisition System Integrator O&S	C/FFP	CACI-ISS, Inc. : Chantilly, VA	-	-		-			Dec 2022	-			· ·	Continuing				
DEAMS: Direct Mission Support (Help Desk, DBA Support, FMO SME Support, Environments)	Various	Various : Various	-	-		-		39.279	Jan 2023	-		39.279	Continuing	Continuing	-			
DEAMS: Production Licenses	C/FFP	Not specified. : TBD	-	-		-		3.000	Nov 2022	-		3.000	Continuing	Continuing	-			
DEAMS: License Maintenance	C/FFP	Not specified. : TBD	-	-		-		8.000	Jan 2023	-		8.000	Continuing	Continuing	-			
		Subtotal	-	-		-		76.279		-		76.279	Continuing	Continuing	N/A			
Test and Evaluation	(\$ in Milli	ions)		FY 2	2021	FY:	2022		2023 ase	FY 2		FY 2023 Total						
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract			
oost outogory item												1						

PE 0608920F: *Defense Enterprise Accounting and Manage...*Air Force

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R-1 Line #280

Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	023 Air F	orce								Date:	April 202	2	
<b>Appropriation/Budge</b> 3600 / 8	t Activity	1		PE 060	<b>ogram Ele</b> 08920F <i>I E</i> d Manager Pilot Pro	Defense E	t (Number I DEAMS oment	•	ous Capa	bility					
Test and Evaluation (	(\$ in Milli	ons)		FY:	2021	FY	2022		2023 ase		2023 CO	FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac
LDTO and other miscellaneous Test services															
		Subtotal	-	-		-		1.000		-		1.000	Continuing	Continuing	N/
Management Service	s (\$ in M	illions)		FY:	2021	FY	2022		2023 ase		2023 CO	FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac
DEAMS: Program Support	Various	Various : TBD	-	-		-		11.042	2 Jan 2023	-		11.042	Continuing	Continuing	-
		Subtotal	-	-		-		11.042	2	-		11.042	Continuing	Continuing	N/.
			Prior Years	FY:	2021	FY	2022		2023 ase		2023 CO	FY 2023 Total	Cost To	Total Cost	Target Value of Contrac
		Project Cost Totals	_	_		_		136.202		_		136.202	Continuing	Continuing	N/A

PE 0608920F: *Defense Enterprise Accounting and Manage...*Air Force

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 A	ir F	orce																				Dat	e: A	pril 2	202	2		
Appropriation/Budget Activity 3600 / 8								PE ing	060 and	8920	OF I I nage	Defe	ense	(Nun e Ente Systen	erpri	se A	Acco	unt	685	517	8 <i>Ì E</i>				•	ous C	`apa	bility
		FY 2021			FY 20		Y 202	2		FY	2023	3		FY	2024	ļ		FY	2025	5		FY	2026			FY	2027	7
	1	2	3	4	1	1	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>DEAMS CCD Requirements Implementation</b>								ľ					,	·						•	·							
Capability Support Authority to Proceed																												
Capability Support Phase (Continuous Capability Development)							,																					

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force			Date: April 2022
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 8	PE 0608920F / Defense Enterprise Account	685178 <i>I D</i>	DEAMS Continuous Capability
	ing and Management System (DEAMS) - So	Developme	ent
	ftware Pilot Pro		

# Schedule Details

	St	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
DEAMS CCD Requirements Implementation					
Capability Support Authority to Proceed	1	2023	1	2023	
Capability Support Phase (Continuous Capability Development)	1	2023	4	2027	

#### Note

FY 2022 and prior years funding was executed in PE 0901554F - Project Number 675178, PE 0901554F - Line 834470, and OMAF Operating Forces, Activity Group, Service-wide Activities, Sub-Activity Group 42A, Administration.

PE 0608920F: *Defense Enterprise Accounting and Manage...*Air Force

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Date: April 2022

Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software

R-1 Program Element (Number/Name)
PE 0208087F / Distributed Cyber Warfare Operations

and Digital Technology Pilot Programs

COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	37.346	0.000	37.346	0.000	0.000	0.000	0.000	0.000	37.346
688EBC: AF Defensive Cyber Systems (AFDCS) - EBC	-	0.000	0.000	37.346	0.000	37.346	0.000	0.000	0.000	0.000	0.000	37.346

## A. Mission Description and Budget Item Justification

This exhibit and funds request as shown are due to a database error. A technical adjustment will be requested to correct.

No Budget Activity 8 funds are requested for Program Element 0208087F.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	37.346	0.000	37.346
Total Adjustments	0.000	0.000	37.346	0.000	37.346
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000			
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	37.346	0.000	37.346

PE 0208087F: Distributed Cyber Warfare Operations
Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force							l 2022	
Appropriation/Budget Activity	R-1 Progra	am Element	t (Number/	Name)	Project (N	umber/Nar	ne)	
3600 / 8	PE 020808	7F I Distrib	uted Cyber	Warfare	688EBC / A	AF Defensi	ve Cyber Sy	stems
	Operations				(AFDCS) -	EBC		
					ĺ			

COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
688EBC: AF Defensive Cyber Systems (AFDCS) - EBC	-	0.000	0.000	37.346	0.000	37.346	0.000	0.000	0.000	0.000	0.000	37.346
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# A. Mission Description and Budget Item Justification

This exhibit and funds request as shown are due to a database error.

No Budget Activity 8 funds are requested for Program Element 0208087F.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: N/A	-	0.000	37.346
Description: N/A			
<b>FY 2022 Plans:</b> N/A			
<b>FY 2023 Plans:</b> N/A			
FY 2022 to FY 2023 Increase/Decrease Statement: N/A			
Accomplishments/Planned Programs Subtotals	-	0.000	37.346

# C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

# D. Acquisition Strategy

N/A

PE 0208087F: Distributed Cyber Warfare Operations

Air Force

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R-1 Line #281

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force			Date: April 2022
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0208087F I Distributed Cyber Warfare Operations	• `	umber/Name) AF Defensive Cyber Systems EBC

Product Developmen	ıt (\$ in Mi	illions)		FY 2	2021	FY 2	2022	FY 2 Ba			2023 CO	FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
N/A	TBD	Not specified. : TBD	-	-		-		37.346		-		37.346	Continuing	Continuing	-
		Subtotal	-	-		-		37.346		-		37.346	Continuing	Continuing	N/A

#### Remarks

This exhibit and funds request as shown are due to a database error.

No Budget Activity 8 funds are requested for Program Element 0208087F.

										Target
	Prior Years	FY 202	21	Y 2022	FY 2 Ba	 FY 2	Y 2023 Total	Cost To Complete	Total Cost	Value of Contract
Project Cost Totals	-	-		-	37.346	-	37.346	Continuing	Continuing	N/A

#### Remarks

PE 0208087F: *Distributed Cyber Warfare Operations*Air Force

Exhibit R-4, RDT&E Schedule Profile: P	PB 2023 Air Force				Date: Apr	il 2022
Appropriation/Budget Activity 3600 / 8		<b>R-1 Program Element (Numl</b> PE 0208087F <i>I Distributed Cy</i> <i>Operations</i>	,	• •		me) ive Cyber Systen
	FY 2021 FY 2022	P FY 2023 FY 20	)24 FY	2025	FY 2026	FY 2027
	1 2 3 4 1 2 3	4 1 2 3 4 1 2	3 4 1 2	3 4 1	1 2 3	4 1 2 3
N/A						

PE 0208087F: Distributed Cyber Warfare Operations Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0208087F I Distributed Cyber Warfare Operations	Project (Number/Name) 688EBC I AF Defensive Cyber Systems (AFDCS) - EBC

# Schedule Details

	Start			nd
Events	Quarter	Year	Quarter	Year
N/A	1	2023	4	2023

#### Note

This exhibit as shown is due to a database error.

No Budget Activity 8 funds are requested for Program Element 0208087F.

PE 0208087F: *Distributed Cyber Warfare Operations*Air Force



Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program

, ,												
COST (\$ in Millions)	Prior			FY 2023	FY 2023	FY 2023					Cost To	Total
COST (\$ III WIIIIOIIS)	Years	FY 2021	FY 2022	Base	oco	Total	FY 2024	FY 2025	FY 2026	FY 2027	Complete	Cost
Total Program Element	-	0.000	0.000	240.926	0.000	240.926	202.751	137.776	142.565	156.908	Continuing	Continuing
682001: AFDCS Continuous Capability Delivery	-	0.000	0.000	225.865	0.000	225.865	202.751	137.776	142.565	156.908	Continuing	Continuing
688EBC: Enhanced Budget Control	-	0.000	0.000	15.061	0.000	15.061	0.000	0.000	0.000	0.000	0.000	15.061

#### Note

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.

In FY23, \$15.061M was realigned to Budget Activity 08, PE 0308605F Project 682EBC to transparently define specific resources to be realigned in FY24 to USCYBERCOM for Enhanced Budget Control in accordance with FY21 NDAA, Section 1746.

# A. Mission Description and Budget Item Justification

This effort is not a new start. The FY 2018 NDAA Sections 873/874 directed OSD to streamline software development. The Air Force Defensive Cyber Systems (AFDCS) effort is an OSD pilot initiative in which all lifecycle funding will be tracked under BA08, Software and Digital Technology Pilot Programs. Pilot programs will allow the DAF to execute modern software development practices encompassing development, procurement, modification and maintenance activities within a single appropriation.

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. 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.

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force

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R-1 Line #282

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force Date: April 2022

#### Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program

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 3months. 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 of taxpayer dollars, mitigate risk, reduce waste, effectively respond to change, and continuously improve processes.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In PY \$0.103M was expended for civilian pay expenses in this program element, and in CY \$0.228M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	240.926	0.000	240.926
Total Adjustments	0.000	0.000	240.926	0.000	240.926
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000			
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	240.926	0.000	240.926

## **Change Summary Explanation**

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. 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. Respective FY22 funding totaled \$232.13M. FY23 increased to \$240.93M due to economic adjustments prior to realignment to Budget Activity 8, PE 0308605F for participation in the DoD's Software & Digital Technology Pilot Program.

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force

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Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2023 A	ir Force							Date: April	2022	
Appropriation/Budget Activity 3600 / 8					, , , , ,				Number/Name) AFDCS Continuous Capability			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
682001: AFDCS Continuous Capability Delivery	-	0.000	0.000	225.865	0.000	225.865	202.751	137.776	142.565	156.908	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## A. Mission Description and Budget Item Justification

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. 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.

This effort funds the development, sustainment, maintenance, additional hardware and software as well as recapitalization for various systems in AFDCS 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.

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.

Daily intrusions to the AF network are analyzed using complex Commercial off the Self (COTS) and Government off the Self (GOTS) forensic tools to identify a multitude of counter defensive and defensive tools and techniques that are required to strengthen AF cyber security. AFDCS will work with Air Force Research Laboratory (AFRL), Air Force CyberWorx, and other Federal Research and Development (R&D) entities in order to take cutting edge solutions to the technology readiness level (TRL) needed for rapid deployment of new capabilities to counter critical cyber weapon system vulnerabilities.

AFDCS funding also provides essential compute and store capacity and USAF unique application development for the ELICSAR big data platform, a capability federated with other Service efforts under the Unified Platform program.

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force

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R-1 Line #282

Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force		Date: A	April 2022			
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program	Project (Number/Name) 682001 I AFDCS Continuous Capability Delivery				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023		
Title: AFDCS Continuous Capability Delivery (CCD) Development	t - RDT&E	-	0.000	9.508		
<b>Description:</b> AFDCS CCD system capabilities will be developed a cycles in accordance with an Agile software development strategy build, test, data conversion, vulnerability, compliance, defense and testing, and the resolution of deficiency reports and defects. Development modernization and AF Cyber Needs Forms in the area of AF required by Cyber Protection Teams and Mission Defense Teams new capabilities and the test environments for validating the capal of non-secure telecommunications during peace time and contingent prevent, detect, and respond to adversarial penetration in AF networks (A&AS) and Program Management Administration (PMA)	v. Development activities include requirements analysis, design of non-technical assessments, best practice reviews, penetral elopment and integration of solutions supporting defensive FDCS capabilities and technologies to meet capability gaps and technologies to meet capability gaps are test and Evaluation provides both developmental testing abilities. Engineering support to conduct AFDCS assessment ency operations. Additional developments include projects tworks. Activities also include various Advisory and Assistance.	of t o ee				
<b>FY 2022 Plans:</b> FY22 Plans consolidated from PE 0208088F, AF Defensive Cyber Assessment, 677822 Cyberspace Defense Analysis, and 677823		ity				
<ul> <li>Continue development and integration of technologies to conduct systems vulnerability analysis.</li> </ul>	ct vulnerability assessments, network intrusion analysis and					
- Continue development and integration to support modernization Protection Teams and Mission Defense Teams.	of DCO capabilities and technologies to support Cyber					
- Continue support of development of data loss prevention technol Support technology areas that prevent adversaries' attempts to ge						
- Continue to develop and test technologies to prevent, detect, and	d respond to adversarial penetration in AF networks.					
FY 2023 Plans: - Will continue incremental planning and support initiatives to orga requirements into delivered capabilities.	anize Continuous Capability Development (CCD) backlog					
<ul> <li>Will continue development and integration of technologies to con systems vulnerability analysis</li> </ul>	nduct vulnerability assessments, network intrusion analysis	and				

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force		Da	e: April 2022		
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 202	1 FY 2022	FY 2023	
<ul> <li>Will continue development and integration to support modernization.</li> <li>Protection Teams and Mission Defense Teams</li> </ul>	ation of AFDCS capabilities and technologies to support Cyb	per			
- Will continue support of development of data loss prevention ted Support technology areas that prevent adversaries' attempts to g		es.			
- Will continue to develop and test technologies for the AFDCS to networks	prevent, detect, and respond to adversarial penetration in	AF			
- Will continue development testing for AFDCS capability product	s and technologies prior to fielding				
- Will leverage Agile methods and cadence to resolve existing/ne	w defects and add enhancements in the production environ	ment			
- Will restructure the system architecture to improve performance					
- Will continue migration/development/transition activities to imple	ement Cloud solution				
- Will refine near-term technical requirements/tools to ensure smo	ooth operation of AFDCS and mature development capabilit	ies			
- Will research, design, and build a secure and continuous proces	ss for development and delivery of capabilities (Dev/Sec/Op	s)			
FY 2022 to FY 2023 Increase/Decrease Statement: Funding for this effort is unchanged with respect to FY22 request 677821 Cyberspace Vulnerability Assessment, 677822 Cyberspa		rojects			
Title: AFDCS Continuous Capability Development (CCD) Deploy	ment - Procurement		- 0.000	87.04	
<b>Description:</b> AFDCS CCD provides defensive counter cyberspace to include their associated computer systems, software application intrusion, corruption, and/or destruction. AFDCS additionally provided Central Command, and Third Party SIPR/NIPR computer network traffic analysis, network forensics analysis, countermeas indication and warning, correlation, logging, vulnerability remedia identification, investigation, and containment. Provides CSSP (Cyand several third party entities including Joint Strike Fighter, UST	ons and sensitive operational information against unauthorize tide for 24/7/365 monitoring and defense of US Air Force and works against hostile attacks as well as intrusion detection, ure development and execution, and incident response. Protion, assessment, process management, blocking, vulnerably ber Security Service Provider) system upgrades to the AFN	ed d ovides ility let			

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force		Date	: April 2022		
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program	er 682001 l AFDCS Continuous Capa			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023	
FY 2008 National Defense Authorization Act (P.L. 110-181), this ite of the Armed Forces for homeland defense missions, domestic emauthorities.		ents			
AFDCS provides hardware, software, technical documents, fielding replacing end of life/end of support Direct Mission Support (DMS) a fielding for cyber security improvements and existing 3rd Party mo	and 3rd Party components). Also includes integration, test				
AFDCS provides defensive cyber capability and CVA/H equipment Interceptor Platform (DIP), and Mobile Interceptor Platform (MIP)) Defense Teams (MDTs). Equipment also includes an enhanced Di (less than 50lbs and TSA carry-on compliant).	for Air Force Cyber Protection Teams (CPTs) and Mission	tor			
FY 2022 Plans: FY22 plans consolidated from FY22 request PE 0208088F, AF De Countermeasures:	efensive Cyberspace Operations, Line Item 834320, C3				
- Continue providing hardware refresh of the CVA/H subsystems a additional 20 MDTs.	and technical refresh of 15 existing MDTs and equip an				
- Continue procuring necessary hardware and software to combat recapitalization projects to include Enterprise Voice Protection Sys 184+ AF Sites and regional management and collection servers at	stem (VPS)/Voice Over Internet Protocol (VoIP) Monitoring	for			
- Continue supporting early system deployment of Enterprise-Data advances, and provide operators the ability to automatically detect detection techniques					
- Continue acquiring and installing active defensive counter cybers Defensive Cyberspace Operations role to achieve cyberspace sup		a			
- Continue procure updates for Enterprise Logging, Data Wall, Dat software upgrades needed to maximize operators' threat awareness		e/			

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force			Date: A	pril 2022	
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program	Project (N 682001 / Delivery		Name) Continuous Ca	pability
B. Accomplishments/Planned Programs (\$ in Millions)		F	<b>/ 2021</b>	FY 2022	FY 2023
- Continue acquiring commercial threat intelligence to speed decision-	making against threats to the Air Force Network (AFNE			-	
FY 2023 Plans: - Will continue to replace the subsystems fielded in FY20 for complian MDTs.	ce with recent CVA/H hardware baseline standards for				
<ul> <li>Will continue procuring necessary hardware and software to combat recapitalization projects to include Endpoint Detection and Response connections, system changes, memory activities, and other operations (PCAP) which provides indexing, searching, visualization, and extractions</li> </ul>	(EDR) and to enable the ability to capture execution, lost performed by endpoints; and Endpoint Packet Capture	cal			
<ul> <li>Will continue supporting early system deployment of Enterprise-Data technological advances, and provide operators the ability to automatic content-aware detection techniques</li> </ul>		3			
<ul> <li>Will continue acquiring and installing active defensive counter cybers</li> <li>Defensive Cyberspace Operations role to achieve cyberspace superior</li> </ul>		s in a			
- Will continue procure updates for Enterprise Logging, Data Wall, Dat software upgrades needed to maximize operators' threat awareness.	a Analytics (via ELICSAR big data platform), and hard	ware/			
- Will continue acquiring commercial threat intelligence to speed decis (AFNET).	ion-making against threats to the Air Force Network				
FY 2022 to FY 2023 Increase/Decrease Statement: Funding for this effort is unchanged with respect to FY22 request PE 0834320, C3 Countermeasures.	0208088F, AF Defensive Cyberspace Operations, Line	Item			
Title: AFDCS Continuous Capability Delivery (CCD) - Support and Su	stainment		-	0.000	129.30
<b>Description:</b> AFDCS capabilities will be sustained through activities of systems and integrated AFDCS capabilities activities include day-to-	ay operations and support, production environment ebt reduction, refreshes/updates to databases, and d assistance Services (A&AS) and Program Managem	ent			

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force		Date: /	April 2022			
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023		
FY 2022 Plans: FY22 Plans consolidated from FY22 request OMAF Operating Forces, Group 12D, Cyberspace Activities and OMAF Operating Forces, Sustainment						
- Continue supporting secure, reliable conduct of cyber defense of forces without prohibitive interference by an adversary.	operations and related air, land, maritime, and space cybers	pace				
- Continue to sustain the operational capability of the Cyberspace Protection Teams.	e Vulnerability Assessment/Hunter mission to support Cyber	-				
- Continue 24/7 support to operations for over 2,000 operators fro (ANG), and Air Force Reserve Command (AFRC) and expanding		Guard				
- Continue Hardware Refresh, Software License Renewal, Cyber development and support.	security support, Sustaining Engineering Support, training					
- Continue maintenance and updates for Technical Orders, include archiving, distributing, superseding, rescinding, and reinstating.	ding updating, verifying, indexing, configuration control, stori	ing,				
- Continued Contractor Logistics Support (CLS) for Cyber sustain equipment or item. CLS is used to provide all or part of the sustain						
- Continue sustaining cloud-hosted data and applications at Uncl	assified, Secret and Top Secret classifications.					
- Continue sustaining procured enhanced software capabilities, s subsystems ACD, CDA, and CVA/H.	ystem integration support and improvements for the AFDCS	5				
FY 2023 Plans: - Will continue supporting secure, reliable conduct of cyber defen cyberspace forces without prohibitive interference by an adversar						
- Will continue to sustain the operational capability of the Cybersp Protection Teams.	pace Vulnerability Assessment/Hunter mission to support C	yber				

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force			Date: A	April 2022	
Appropriation/Budget Activity 3600 / 8	68200	Project (Number/Name) 882001 I AFDCS Continuous Capability Delivery			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2021	FY 2022	FY 2023
- Will continue 24/7 support to operations for over 2,000 operators from ac Guard (ANG), and Air Force Reserve Command (AFRC) and expanding gl		al			
- Will continue Hardware Refresh, Software License Renewal, Cybersecuri development and support.	ity support, Sustaining Engineering Support, training	ng			
- Will continue maintenance and updates for Technical Orders, including ustoring, archiving, distributing, superseding, rescinding, and reinstating.	pdating, verifying, indexing, configuration control,				
- Will continue Contractor Logistics Support (CLS) for Cyber sustainment to equipment or item. CLS is used to provide all or part of the sustainment fur					
- Will continue sustaining cloud-hosted data and applications at Unclassifie	ed, Secret and Top Secret classifications.				
- Will continue sustaining procured enhanced software capabilities, system	integration support and improvements for the AFI	DCS.			
- Will continue to improve system efficiency by supporting continuous procapabilities (Dev/Sec/Ops) and posturing the production system architectu	· · · · · · · · · · · · · · · · · · ·				
FY 2022 to FY 2023 Increase/Decrease Statement: FY23 economic adjustments increased funding by \$8.8M with respect to F Combat Related Operations, Sub-Activity Group 12D, Cyberspace Activitie Operations, Sub-Activity Group 11V, Cyber Sustainment.	• • • • • •				

## C. Other Program Funding Summary (\$ in Millions)

N/A

#### Remarks

# D. Acquisition Strategy

The AFDCS will use various existing and new contractual vehicles to procure commercial off the shelf cyber capabilities, leverag industry leading commercial capabilities, and professional services for integration and configuration support, new capability development and sustainment. Contract sources include Government-Wide Acquisition Contracts (GWACs) such as Alliant, Encore II, NASA Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force

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**Accomplishments/Planned Programs Subtotals** 

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225.865

0.000

Exhibit R-2A, RDT&E Project Justification: PB 2023 A	Air Force	Date: April 2022
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program	
FFRDCs, Advisory and Assistance Services (A&AS) cor	rage Small Business Innovative Research (SBIR) and Air Force Resentracts, and support from Test and Evaluation Enterprises. Whereve industry engagement. The use of multiple-award contractual vehicle ments.	r possible AFDCS will leverage competitive

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force

Date: April 2022

Appropriation/Budget Activity R-1 Program Element (Number/Name)

3600 / 8 PE 0308605F / Air Force Defensive Cyber 682001 / Systems (AFDCS) - Software Pilot Program Delivery

Project (Number/Name)
682001 / AFDCS Continuous Capability

Product Developmer	Development (\$ in Millions)		opment (\$ in Millions) FY 2021 FY 2022		2022	FY 2023 Base		FY 2023 OCO							
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AFDCS: Enterprise Logging Ingest & Cyber Situational Awareness Refinery (ELICSAR)	C/FFP	CCSD : San Antonio, TX	-	-		-		26.297	Mar 2023	-		26.297	Continuing	Continuing	-
AFDCS: Enterprise Data Acquisition Transport & Analysis (ELX)	TBD	TBD : TBD, TX	-	-		-		30.700	Jul 2023	-		30.700	Continuing	Continuing	-
AFDCS: AFRL - CPAC B	C/FFP	CNF : San Antonio, TX	-	-		-		0.900	Feb 2023	-		0.900	Continuing	Continuing	-
AFDCS: AFRL - RAZOR	C/FFP	BAH : San Antonio, TX	-	-		-		2.900	Mar 2023	-		2.900	Continuing	Continuing	-
AFDCS: AFRL FIRESTARTER	C/FFP	AFRL : Rome, NY	-	-		-		1.700	Apr 2023	-		1.700	Continuing	Continuing	-
AFDCS: WEB VULNERABILITY SYSTEM	C/FFP	Thundercat : San Antonio, TX	-	-		-		0.500	Mar 2023	-		0.500	Continuing	Continuing	-
AFDCS: SERVICE NOW	C/FFP	Technica : San Antonio, TX	-	-		-		3.000	Feb 2023	-		3.000	Continuing	Continuing	-
AFDCS: MITRE	C/FFP	MITRE : San Antonio, TX	-	-		-		4.000	Jan 2023	-		4.000	Continuing	Continuing	-
AFDCS: Cyber Threat Mitigation - Threat Intelligence	C/CPFF	VARIOUS : VARIOUS, TX	-	-		-		0.300	Jan 2023	-		0.300	Continuing	Continuing	-
AFDCS: Defensive Next Gen - Data & Analysis	C/CPFF	VARIOUS : VARIOUS, TX	-	-		-		2.900	Jan 2023	-		2.900	Continuing	Continuing	-
AFDCS: Defensive Next Gen - Sensor Optimization	C/FFP	VARIOUS : VARIOUS, TX	-	-		-		0.390	May 2023	-		0.390	Continuing	Continuing	-
AFDCS: Defensive Next Gen - Data Collection and Correlation	C/FFP	VARIOUS : VARIOUS, TX	-	-		-		0.309	Apr 2023	-		0.309	Continuing	Continuing	-
AFDCS: Defensive Next Gen - Intrusion Prevention Capabilities	C/FFP	VARIOUS : VARIOUS, TX	-	-		-		0.300	Aug 2023	-		0.300	Continuing	Continuing	-

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

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R-1 Line #282

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force

Appropriation/Budget Activity

3600 / 8

R-1 Program Element (Number/Name)
PE 0308605F / Air Force Defensive Cyber
Systems (AFDCS) - Software Pilot Program

Date: April 2022

Project (Number/Name)
682001 / AFDCS Continuous Capability
Delivery

FY 2022

FY 2021

FY 2023

Base

FY 2023

oco

FY 2023

Total

Cost Category Item	Contract Method & Type	Performing Activity & Location Subtotal	Prior Years	Cost	Award Date	Cost	Award Date	<b>Cost</b> 74.196	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Support (\$ in Millions	s)	Subtotal	-	EV.	2021	EV	2022	FY	2023 ase		2023 CO	FY 2023 Total		Continuing	N/A
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AFDCS: Hardware and Architecture	C/FFP	Dell/Cisco/ VARIOUS : San Antonio, TX	-	-		-		6.000	May 2023	-		6.000	Continuing	Continuing	-
AFDCS: Production Licenses, renewals, and Maintenance	C/FFP	Fidelis/vmware/ VARIOUS : San Antonio, TX	-	-		-		8.000	May 2023	-		8.000	Continuing	Continuing	-
AFDCS: Sustainment (DBA Support, Architecture Services, SME Support, HW/SW)	C/FFP	BAH, Zivaro, Fidelis : San Antonio, TX	-	-		-		1.200	May 2023	-		1.200	Continuing	Continuing	-
AFDCS: Cloud Services	C/FFP	SAIC : Hanscom AFB, MA	-	-		-		1.700	May 2023	-		1.700	Continuing	Continuing	-
AFDCS: Contractor Logistics Support	C/FFP	Fidelis/vmware/ VARIOUS : San Antonio, TX	-	-		-		2.600	May 2023	-		2.600	Continuing	Continuing	-
AFDCS: Training and Technical Data	C/FFP	SMS : San Antonio, TX	-	-		-		0.400	May 2023	-		0.400	Continuing	Continuing	-
AFDCS: Compute and Store Cloud Services- ELICSAR-U	C/CPAF	Cloud One - HNI : Hanscom AFB, MA	-	-		-		27.554	Mar 2023	-		27.554	Continuing	Continuing	-
AFDCS: Compute and Store Cloud Services- ELICSAR-TS	C/CPAF	AMIC - DET : Lackland AFB, TX	-	-		-		4.047	Mar 2023	-		4.047	Continuing	Continuing	-
AFDCS: SEIM	C/FFP	Thundercat : San Antonio, TX	-	-		-		3.000	Jun 2023	-		3.000	Continuing	Continuing	-
AFDCS: SOAR	C/FFP	GovSmart : San Antonio, TX	-	-		-		0.900	Aug 2023	-		0.900	Continuing	Continuing	-

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

**Product Development (\$ in Millions)** 

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force

R-1 Program Element (Number/Name)

Project (Number/Name)

Appropriation/Budget Activity 3600 / 8

PE 0308605F I Air Force Defensive Cyber Sys

682001 I AFDCS Continuous Capability

Date: April 2022

stems (AFDCS) - Software Pilot Program	Delive
--	--------

Support (\$ in Million	pport (\$ in Millions)			FY 2	2021	FY :	2022		2023 ise	FY 2		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AFDCS: IOP	C/FFP	BAH : San Antonio, TX	-	-		-		1.700	Jan 2023	-		1.700	Continuing	Continuing	-
AFDCS: RFMS	C/FFP	Telos : San Antonio, TX	-	-		-		1.300	Apr 2023	-		1.300	Continuing	Continuing	-
AFDCS: Direct Cite Authority Civilian Pay	TBD	VARIOUS : VARIOUS, TX	-	-		-		0.387	Oct 2022	-		0.387	Continuing	Continuing	-
AFDCS: Sustaining Engineering Software Licenses	C/FFP	VARIOUS : VARIOUS, TX	-	-		-		21.742	Nov 2022	-		21.742	Continuing	Continuing	, -
AFDCS: Contracted Logistics Support	C/CPFF	VARIOUS : VARIOUS, TX	-	-		-		8.155	Feb 2023	-		8.155	Continuing	Continuing	-
AFDCS: Tech Data Sustainment	C/CPFF	VARIOUS : VARIOUS, TX	-	-		-		0.278	Feb 2023	-		0.278	Continuing	Continuing	-
AFDCS: TRAINING	C/CPFF	VARIOUS : VARIOUS, TX	-	-		-		0.141	Feb 2023	-		0.141	Continuing	Continuing	-
AFDCS: Product Engineering Support	C/CPFF	VARIOUS : VARIOUS, TX	-	-		-		5.418	Feb 2023	-		5.418	Continuing	Continuing	-
AFDCS: Hardware Sustainment	Various	VARIOUS : VARIOUS, TX	-	-		-		3.865	May 2023	-		3.865	Continuing	Continuing	-
AFDCS: Cyber Security Support	C/CPFF	VARIOUS : VARIOUS, TX	-	-		-		0.525	Feb 2023	-		0.525	Continuing	Continuing	, -
AFDCS: CVA/H Subsystems Upgrade	C/FFP	VARIOUS : VARIOUS, TX	-	-		-		10.039	Mar 2023	-		10.039	Continuing	Continuing	-
AFDCS: Hardware Procurement MDT	C/FFP	VARIOUS : VARIOUS, TX	-	-		-		19.958	Mar 2023	-		19.958	Continuing	Continuing	-
		Subtotal	-	-		-		128.909		-		128.909	Continuing	Continuing	N/A

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force

Exhibit R-3, RDT&E I	Project Co	ost Analysis: PB 2	023 Air F	orce								Date:	April 202	22		
<b>Appropriation/Budge</b> 3600 / 8	et Activity	1				PE 030	8605F <i>I A</i>	Air Force I	umber/Na Defensive vare Pilot i	Cyber						
Test and Evaluation	(\$ in Milli	ons)		FY 2	2021	FY	2022		2023 ise	FY 2	2023 CO	FY 2023 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract	
AFDCS: 47 CYBER TEST SQUADRON	C/Various	47 TEST SQDN : Lackland AFB, TX	-	-		-		1.800	Mar 2023	-		1.800	Continuing	Continuing	-	
AFDCS: 46TH TEST SUPPORT	MIPR	46 TEST SQDN : EGLIN AFB, FL	-	-		-		0.400	Oct 2022	-		0.400	Continuing	Continuing	-	
		Subtotal	-	-		-		2.200		-		2.200	Continuing	Continuing	N/A	
Management Service	es (\$ in M	illions)		FY 2	2021	FY	2022		2023 ise	FY 2	2023 CO	FY 2023 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract	
AFDCS: Program Support Costs (PSC)	C/CPIF	CCSD : Lackland AFB, TX	-	-		-		17.000	Apr 2023	-		17.000	Continuing	Continuing	-	
AFDCS: GPC/SHIPPING/ TRAVEL	C/Various	VARIOUS : VARIOUS	-	-		-		0.700	Dec 2022	-		0.700	Continuing	Continuing	-	
AFDCS: Engineering & Technical Assistance Support Services	Various	VARIOUS : VARIOUS	-	-		-		2.860		-		2.860	Continuing	Continuing	_	
	1	Subtotal	-	-		-		20.560		-		20.560	Continuing	Continuing	N/A	
			Prior Years	FY 2	2021	FY	2022		2023 ise	FY 2	2023 CO	FY 2023 Total	Cost To	Total Cost	Target Value of Contract	
		Project Cost Totals						225.865						Continuing	N/A	

Remarks

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

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Exhibit R-4, RDT&E Schedule Profile: PE	3 2023 Air F	orce																			Date	e: Ap	pril 2	2022	2		
Appropriation/Budget Activity 3600 / 8  R-1 Program Element (Number/Name) PE 0308605F / Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program Project (Number/Name) 682001 / AFDCS Continuous Ca										apa	bility																
		FY	2021		F	Y 20	22		FY	2023	3		FY	2024			FY 2	2025			FY 2	2026		$\top$	FY	202 <sup>-</sup>	7
	1	2	3	4	1	2 3	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AFDCS																											
AFDCS Development																											
AFDCS Deployment																											
AFDCS Support/Sustainment																											
AFDCS Test and Evaluation		_																									

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force			Date: April 2022
Appropriation/Budget Activity	<b>3</b> · · · · · · · · · · · · · · · · · · ·	- , ,	umber/Name)
3600 / 8	PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program		FDCS Continuous Capability

# Schedule Details

	St	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
AFDCS						
AFDCS Development	1	2023	4	2027		
AFDCS Deployment	1	2023	4	2027		
AFDCS Support/Sustainment	1	2023	4	2027		
AFDCS Test and Evaluation	1	2023	4	2027		

Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force												Date: April 2022			
Appropriation/Budget Activity 3600 / 8	R-1 Progra PE 030860 Systems (A		umber/Name) Enhanced Budget Control												
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost			
688EBC: Enhanced Budget Control	-	0.000	0.000	15.061	0.000	15.061	0.000	0.000	0.000	0.000	0.000	15.061			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					

## A. Mission Description and Budget Item Justification

In FY23, \$15.061M was realigned to Budget Activity 08, PE 0308605F Project 682EBC to transparently define specific resources to be realigned in FY24 to USCYBERCOM for Enhanced Budget Control in accordance with FY21 NDAA, Section 1746.

This effort procures the Cyberspace Vulnerability Assessment/Hunter (CVA/H) kits for USCYBERCOM Cyber Protection Teams (CPTs). 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. The composition of procured items will vary from year-to-year and site-to-site based on operational requirements to achieve the weapon systems capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: Enhanced Budget Controls	-	0.000	15.061
<b>Description:</b> This effort procures the Cyberspace Vulnerability Assessment/Hunter (CVA/H) kits for USCYBERCOM Cyber Protection Teams (CPTs). 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. The composition of procured items will vary from year-to-year and site-to-site to achieve the weapon systems capabilities.			
FY 2022 Plans: FY22 plans consolidated from FY22 request PE 0208088F, AF Defensive Cyberspace Operations, Line Item 834320, C3 Countermeasures:			
- Continue providing hardware refresh of the CVA/H subsystems and technical refresh of CPTs.			
FY 2023 Plans: - Will continue to replace the subsystems fielded in FY20 for compliance with recent CVA/H hardware baseline standards for CPTs.			
FY 2022 to FY 2023 Increase/Decrease Statement:			

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force

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R-1 Line #282

Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force			Date: A	April 2022	
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program	Project (N 688EBC /		Name) ed Budget Co	ntrol
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2021	FY 2022	FY 2023

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Funding decreased 1.559M with respect to FY22 request PE 0208088F, AF Defensive Cyberspace Operations, Line Item 834320, C3 Countermeasures to align with current operational requirements.			
Accomplishments/Planned Programs Subtotals	-	0.000	15.061

# C. Other Program Funding Summary (\$ in Millions)

N/A

## Remarks

# D. Acquisition Strategy

Refer to Budget Activity 8, PE 0308605F, Project 682001, AFDCS Continuous Capability Delivery for description of acquisition strategy.

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force			Date: April 2022
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 8	PE 0308605F I Air Force Defensive Cyber	688EBC /	Enhanced Budget Control
	Systems (AFDCS) - Software Pilot Program		

Support (\$ in Million	Contract Method & Performing Activity & Location OCS: Hardware curement CPT  Contract Method Performing Activity & Location VARIOUS: VARIOUS			FY 2021		FY 2	2022	1	2023 ase		2023 CO	FY 2023 Total			
Cost Category Item	Method	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AFDCS: Hardware Procurement CPT	C/FFP		-	-		-		15.061	Mar 2023	-		15.061	Continuing	Continuing	-
		Subtotal	-	-		-		15.061		-		15.061	Continuing	Continuing	N/A
			Prior					FY:	2023	FY:	2023	FY 2023	Cost To	Total	Target Value of

	Prior Years	FY 2	021	FY 2	2022	FY 2 Ba	FY 2023 OCO	FY 2023 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		15.061	-	15.061	Continuing	Continuing	N/A

**Remarks** 

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Air Force																			Date: April 2022									
Appropriation/Budget Activity 3600 / 8			R-1 Program Element (Number/Name) PE 0308605F I Air Force Defensive Cyber Systems (AFDCS) - Software Pilot Program  Project (Number/Name) 688EBC I Enhanced Budg													,	et Control											
			FY 2021 FY 202					22 FY 2023					FY 2024				F	Y 2	025		FY 2026			;	FY 2027			,
		1	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AFDCS																												

PE 0308605F: *Air Force Defensive Cyber Systems (AFDCS...* Air Force

**Budget Control** 

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force	Date: April 2022		
3600 / 8	, ,	- , (	umber/Name) Enhanced Budget Control

### Schedule Details

	St	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
AFDCS						
Budget Control	1	2023	4	2023		

#### Note

In FY23, Budget Activity 8, PE 0308605F, Project 682001, AFDCS Continuous Capability Delivery funds in the amount of \$15.061M were transferred to Budget Activity 8, PE 0308605F, Project 682EBC, in order to display budget controls which will be realigned in FY24 in accordance with the FY21 NDAA Section 1746.

PE 0308605F: Air Force Defensive Cyber Systems (AFDCS... Air Force



Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force Date: April 2022

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0308606F I All Domain Common Platform (ADCP) - Software Pilot Program

COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost					
Total Program Element	-	0.000	0.000	190.112	0.000	190.112	175.196	190.889	187.666	188.307	0.000	932.170					
682015: All Domain Common Platform	-	0.000	0.000	190.112	0.000	190.112	175.196	190.889	187.666	188.307	0.000	932.170					
Quantity of RDT&E Articles	-	-	_	-	-	-	-	-	-	-							

#### Note

In FY 2023, PE 0308606F, All Domain Common Platform (ADCP), Project 682015, was transferred from RDT&E, AF, PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development, OPAF PE 0303248F, All Domain Common Platform (ADCP), Line Item 833140, Strategic Command and Control, and OMAF Operating Forces, Activity Group, Combat Related Operations, Sub-Activity Group 12A, Global C3I & Early Warning, in order to a participate in DoD's Budget Activity 08 (BA08) for Software and Digital Technology Pilot Program.

#### A. Mission Description and Budget Item Justification

This effort is not a new start. The FY 2018 NDAA Sections 873/874 directed OSD to streamline software development. The All Domain Common Platform (ADCP) is an OUSD(A&S) pilot initiative in which all lifecycle funding will be tracked under BA08, Software and Digital Technology Pilot Programs. Pilot programs will test the ability to execute modern software development practices encompassing development, procurement, modification and maintenance activities.

The All Domain Common Platform (ADCP) is an extensible cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) hosting medium built to deliver highly resilient Command and Control (C2) mission applications and data to Airmen deployed around the world. The 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. The ADCP's collection of technologies, services and tooling enables warfighter outcomes by abstracting away technical complexity and enabling the deployment of products onto its infrastructure.

ADCP is part of the overarching Air Force Life Cycle Management Center's Detachment-12 (Kessel Run) portfolio and this foundational 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 (AOC), Intelligence Programs, the AF Rapid Capabilities Office (AFRCO), and others. ADCP is USAF's contributing platform to Joint All-Domain Command and Control (JADC2) for user-facing C2 capability with the resiliency requirements met through the escalating phases of warfare.

Funding directly supports design, development, enablement services, security, continuous authority to operate (cATO), engineering, network and platform architecture, prototyping efforts to increase platform, communications and network capabilities, data science, data engineering, reinforcement learning, machine learning, artificial intelligence, product management and program management to build functionality and scalability of the platform. ADCP uses Agile methodologies and DevSecOps practices to deliver improved capabilities at scale, in support of mission requirements. ADCP is an evolving, delivered and managed product distributed to customers ensuring the requisite tools and services needed to securely build, deploy and sustain successful C2 mission applications.

PE 0308606F: All Domain Common Platform (ADCP) - Soft... Air Force UNCLASSIFIED
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R-1 Line #283

	UN	ICLASSIFIED					
Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Ai	r Force			,	Date: A	April 2022	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I and Digital Technology Pilot Programs	BA 8: Software		ement (Number/Name All Domain Common Pla		P) - Software	e Pilot Prograi	n
This program element may include necessary civilian pay exfunds would be in addition to the civilian pay expenses budge 0606398F. In PY 0.000M was expended for civilian pay expelement.	eted in program e	lement 0605827F	, 0605828F, 0605829F,	0605831F,	0605832F, 0	605833F, 060	05898F,
This program is in Budget Activity 8, Software and Digital Tecasille development, test and evaluation, procurement, produc						xpenses nece	essary for
B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 202	23 OCO	FY 2023	<u> Total</u>
Previous President's Budget	0.000	0.000	0.000		0.000	0	0.000
Current President's Budget	0.000	0.000	190.112		0.000	190	).112
Total Adjustments	0.000	0.000	190.112		0.000	190	).112
Congressional General Reductions	0.000	0.000					
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000					
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000					
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000					
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000					
Reprogrammings	0.000	0.000					
SBIR/STTR Transfer	0.000	0.000					
Other Adjustments	0.000	0.000	190.112		0.000	190	).112
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2021	FY 2022	FY 2023
Title: ADCP Development					-	0.000	75.763
<b>Description:</b> Funding provided will support research and devand reliability of the platform. These requirements will include continuous authority to operate (cATO), engineering, network increase platform, communications, and network capabilities, learning, artificial intelligence, product and program managen	e design, enablem and platform ard data science, da	nent services, secu hitecture, reliabilit	urity, services necessar y testing, prototyping ef	y for forts to			
FY 2022 Plans: See PE 0303248F, All Domain Common Platform (ADCP), Pl	roject 675218, Ap	plications Develor	pment				
FY 2023 Plans: - Complete construction of resilient production Kubernetes bacustomers - Continue to deliver observability tooling in support of applications.	·		·	xisting			
- Continue to deliver observability tooling in support of applica	ation customers a	s well as platform					

PE 0308606F: All Domain Common Platform (ADCP) - Soft... Air Force

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R-1 Line #283

O. C.	ICLASSIFIED							
Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: A	pril 2022					
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/Name) PE 0308606F I All Domain Common Platform (ADC	ı (ADCP) - Software Pilot Program						
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023				
<ul> <li>Continue to support Continuous Integration/Continuous Delivery (CI/CD) pipe</li> <li>Continue migration to more containerized automated delivery</li> <li>Continue to automate delivery and deployment operations</li> <li>Continue to improve C2 mission application resilience and reliability and decr</li> </ul>								
FY 2022 to FY 2023 Increase/Decrease Statement: Funding was increased due to transfer from PE 0303248F, All Domain Comm Development.	on Platform (ADCP), Project 675218, Applications							
Title: ADCP Fielding		-	0.000	30.738				
<b>Description:</b> Provides the hardware, bench stock, software, technical docume Replacement required to ensure ADCP on-premise suites are operable and conditional nodes to increase ADCP's functionality, redundancy, and resiliency. <b>FY 2022 Plans:</b> See PE 0303248F, All Domain Common Platform (ADCP), Line Item 833140, 2005.	ompliant. Funding will also be used to establish							
FY 2023 Plans:  - Conduct Capital Equipment Replacement of ADCP on-premises hardware sure - Procure hardware and bench stock to assist in the care and upkeep of the hallocation where on-premises hardware is operational - Establish a new on-premise hardware suite (notionally West Coast)	uites to support its heightened security posture							
FY 2022 to FY 2023 Increase/Decrease Statement: Funding was increased due to transfer from PE 0303248F, All Domain Comm Command and Control.	on Platform (ADCP), Line Item 833140, Strategic							
Title: ADCP Sustainment		-	0.000	83.611				
<b>Description:</b> Provides resources for ADCP to sustain its multi-region cloud ba PaaS) hosting medium. This funding directly supports business/software tools levels, enablement services, management services to deliver an environment of CI/CD services, security, continuous authority to operate (cATO), software engarchitecture, help desk support, communications and network capabilities, data machine learning, artificial intelligence, warehouse services, product management maintain the functionality and scalability of the platform.	s, licenses, cloud services at various classification to support agile development (DevSecOps) and gineering, site reliability, network and platform a science, data engineering, reinforcement learning,							

PE 0308606F: All Domain Common Platform (ADCP) - Soft... Air Force UNCLASSIFIED
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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software	PE 0308606F I All Domain Common Platform (ADCP) -	Software Pilot Program
and Digital Technology Pilot Programs		

and Digital recimelegy methology			
C. Accomplishments/Planned Programs (\$ in Millions)	021	FY 2022	FY 2023
FY 2022 Plans: See OMAF Operating Forces, Activity Group, Combat Related Operations, Sub-Activity Group 12A, Global C3I & Early Warning			
FY 2023 Plans:  - Maintain multi-region, multi-classification level cloud based laaS and PaaS hosting medium required to securely build, deploy and sustain successful C2 and other mission applications  - Continue to provide personnel, business/software tools, licenses, and management services required to maintain a software environment that supports DevSecOps and CI/CD of software  - Maintain legacy laaS hardware and software as applications migrate to modernized cloud environment  - Expand help desk services to enable developers to utilize Kessel Run tools and services more efficiently and effectively			
FY 2022 to FY 2023 Increase/Decrease Statement: Funding was increased due to transfer from OMAF Operating Forces, Activity Group, Combat Related Operations, Sub-Activity Group 12A, Global C3I & Early Warning.			
Accomplishments/Planned Programs Subtotals		0.000	190.112

### D. Other Program Funding Summary (\$ in Millions)

N/A

#### **Remarks**

### E. Acquisition Strategy

The ADCP program is part of the Investment Master List (IML) and is operating as an approved Software Acquisition Pathway (SWP). The acquisition strategy is to continue efforts that are currently funded through PE 33248F. ADCP will also use Other Transaction Authority (OTA) to continue commercial best practices for software development and to continue scaling of the modern Infrastructure as a Service/Platform as a Service (laaS/PaaS) solution. Activities are also accomplished via Military Interdepartmental Purchase Requests (MIPR). Additionally, significant technical expertise will be sought after via modular contracting approach and provided by Government Agencies, DoD Laboratory, Federally Funded Research and Development Centers (FFRDC), Academia, and Engineering & Professional Acquisition Support Services contractors as well as commercial industry partners.

PE 0308606F: All Domain Common Platform (ADCP) - Soft... Air Force

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	023 Air F	orce								Date:	April 202	2		
Appropriation/Budgo 3600 / 8	et Activity	1										Project (Number/Name) 682015 I All Domain Common Platforn				
Product Developme	nt (\$ in M	illions)		FY 2	2021	FY 2022		FY 2023 Base			2023 CO	FY 2023 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac	
ADCP Development	C/Various	Various : Multiple	-	-		-		50.086	Dec 2022	-		50.086	Continuing	Continuing	-	
ADCP Fielding	C/Various	Various : Multiple	-	-		-		30.738	Dec 2022	-		30.738	Continuing	Continuing	-	
ADCP Sustainment	C/Various	Various : Multiple	-	-		-		65.063	Dec 2022	-		65.063	Continuing	Continuing	-	
		Subtotal	-	-		-		145.887		-		145.887	Continuing	Continuing	N/	
Support (\$ in Million	ıs)			FY 2	2021	FY	2022		2023 ase		2023 CO	FY 2023 Total			,	
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract	
ADCP Direct Mission Support	C/TBD	Various : Various	-	-		-		20.617	Dec 2022	-		20.617	Continuing	Continuing	-	
ADCP Civilian Direct Cite Authority for Product Development	Allot	AFLCMC/FZA : TBD	-	-		-		11.122	Oct 2022	-		11.122	Continuing	Continuing	-	
		Subtotal	-	-		-		31.739		-		31.739	Continuing	Continuing	N/	
Management Servic	es (\$ in M	illions)		FY 2	2021	FY	2022		2023 ise		2023 CO	FY 2023 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac	
ADCP Engineering Services	Various	Various : Various	-	-		-		4.077	Oct 2022	-		4.077	Continuing	Continuing	-	
ADCP Program Support	C/Various	Various : Various	-	-		-		8.409	Dec 2022	-		8.409	Continuing	Continuing	-	
		Subtotal	-	-		-		12.486		-		12.486	Continuing	Continuing	N/	
			Prior Years	FY 2	2021	FY	2022		2023 ise		2023 CO	FY 2023 Total	Cost To	Total Cost	Target Value of Contrac	
		Project Cost Totals		_		_		190.112		_		100 112	Continuing	0	N/	

PE 0308606F: All Domain Common Platform (ADCP) - Soft... Air Force UNCLASSIFIED
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Exhibit R-4, RDT&E Schedule Profile: PB	2023 Air F	orce	Э																			Da	ate:	April	20	22		
Appropriation/Budget Activity 3600 / 8							R-1 Program Element (Number/Name) PE 0308606F I All Domain Common Platfo rm (ADCP) - Software Pilot Program  Project (Number 682015 I All Dom									Name) in Common Platform												
		FY	202	21		FY	202	2		FY	2023	3		FY	2024	1		FY	202	5		F١	202	26		F	Y 20	27
	1	2	3	4	. 1	1 2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2 3	3 4		1	2	3 4
All Domain Common Platform		_																										
7 2 3																												

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force			Date: April 2022
3600 / 8		-,	umber/Name) II Domain Common Platform

### Schedule Details

	St	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
All Domain Common Platform						
All Domain Common Platform	1	2023	4	2027		

#### **Note**

See PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development for prior years development events.



Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force Date: April 2022

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0308607F I Air Force Weather Programs - Software Pilot Program

COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost			
Total Program Element	-	0.000	0.000	58.063	0.000	58.063	60.468	63.029	69.041	70.458	0.000	321.059			
682035: Weather Data Analysis Inc 5	-	0.000	0.000	58.063	0.000	58.063	60.468	63.029	69.041	70.458	0.000	321.059			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					

#### Note

PBES BPAC created (682035) instead of the 2 from the SAF/OSD guidance (683511 & 683512). WDA Inc 5 & WARPSpeed are both combined into this BPAC under the new PE until next round the change can occur due to PRCP lockout.

#### A. Mission Description and Budget Item Justification

- 1. Weather Data Analysis and Dissemination provides a cybersecure cloud computing-based platform supporting large-scale environmental data ingest, processing, and product generation, Continuous Integration/Continuous Delivery (CI/CD) and AI/ML environments for AFWS software development and deployment, and machine-to-machine dissemination of specific, mission-tailored weather data on-demand to support warfighter operations, weapon system interoperability, rapidly integrating into C2 nodes, and shortening the Combatant Commander kill chain. The Weather Data Analysis and Dissemination capability area includes activities for Weather Data Analysis Increment 5 (WDA Inc 5).
- 2. Product Tailoring Warfighter Applications (PTWA) provides software applications that provide and enhance environmental information to support rapid warfighter decision-making. PTWA includes the program, Weather Applications Rapid Production (WARPspeed), which is a suite of software applications developed and delivered across multiple security classification levels. WARPspeed encompasses weather workflow tools and decision aids used to tailor terrestrial and space environmental information, which include both Forecaster-in-the-Loop (FITL) and automated machine-to-machine processes enhanced by Al/ML. WARPspeed leverages the WDA Inc 5 cloud computing, data processing, and Cl/CD and Al/ML platforms to rapidly develop, deliver, and sustain software capabilities, whether deployed into the AF Weather Virtual Private Cloud (AFW-VPC) or to warfighter processing nodes at the edge. The PTWA program Joint Environmental Toolkit (JET) subsumed several software and web development efforts previously aligned under the Weather Data Analysis and Dissemination capability area in FY 2021 and was renamed to WARPspeed. (NOTE: JET is not the same as WARPspeed. JET was renamed as EWA and is not a component of WARPspeed). PTWA and WARPspeed also include the machine learning Global Synthetic Weather Radar (GSWR) capabilities, which were previously aligned under Weather Forecasting.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

PE 0308607F: Air Force Weather Programs - Software Pi... Air Force

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R-1 Line #284

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 A	ir Force					Date: April	2022		
Appropriation/Budget Activity		R-1 Program Ele							
3600: Research, Development, Test & Evaluation, Air Force	BA 8: Software	PE 0308607F / A	<i>Nir Force Weathe</i>	- Software I	Pilot Progra	m			
and Digital Technology Pilot Programs	EV 2024	EV 2022	EV 2022 De		EV 2022 O	20	FY 2023 Total		
B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Ba	<del></del>	FY 2023 O		-	<del></del>	
Previous President's Budget	0.000	0.000	0.0		0.0			000	
Current President's Budget	0.000	0.000	58.0		0.0		58.0		
Total Adjustments	0.000	0.000	58.0	)63	0.0	000	58.0	063	
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000							
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000							
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000							
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000							
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000							
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000							
<ul> <li>SBIR/STTR Transfer</li> </ul>	0.000	0.000							
<ul> <li>Other Adjustments</li> </ul>	0.000	0.000	58.0	063	0.0	00	58.0	063	
C. Accomplishments/Planned Programs (\$ in Millions)						FY 2023	FY 2023	FY 2023	
5. Accomplishments/Fidimed Frograms (\$ 117 millions)				FY 2021	FY 2022	Base	OCO	Total	
Title: WDA Inc 5				0.000	0.000				
<b>Description:</b> WDA Inc 5 institutes a cloud computing-based development to a CI/CD pipeline for software development a updates to functionality and security measures. The WDA Interprise big data analytics capability and AI/ML platform, a deployment of web services, data management, platform momanagement. Finally, the program will provide both classified communicate directly with C2 customers.	nd deployment eff c 5 cloud computing s well as supporting nitoring, application	orts which will ena ng platform will als ng and funding dev on on-boarding, an	able rapid o provide an velopment and id platform user						
FY 2022 Plans: FY 2022 funding will support the CI/CD pipeline modernization further AI/ML platform integration and data integration to the			ions and will						
<b>FY 2023 Base Plans:</b> Funding will support the CI/CD pipeline modernization for we ML platform integration and new satellite data integration to the state of the			will further AI/						
<b>FY 2023 OCO Plans:</b> N/A									
EV 0000 to EV 0000 to one of December 04-4								I .	
FY 2022 to FY 2023 Increase/Decrease Statement:									

PE 0308607F: *Air Force Weather Programs - Software Pi...* Air Force

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R-1 Line #284

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force				Date: April	2022	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/ PE 0308607F / Air Force Weather		- Software	Pilot Progra	m	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
New PE transfer of funds and re-alignment of 3600 and 3400 appropriations camounts.	aused increase of funding					
Title: WARPSpeed		0.000	0.000	18.570	0.000	18.570
<b>Description:</b> WARPspeed develops and delivers a suite of software application classification levels to provide and enhance environmental intelligence to support making. Major software developments include: the BIFROST Portal (formally E (E2P)), Mission Services, Global Synthetic Weather Radar (GSWR), weather (integration, and other forecast and climatology applications.	oort rapid warfighter decision Enterprise Environmental Platform					
FY 2022 Plans:  Develop BIFROST Portal which will provide a single front entry point into the A for all html-based capabilities for environmental content and services on all cla to enhance Mission Services, to include the continued development of environ Continue to develop weather C2 visualization plug-ins to integrate weather dat various C2 systems. Continue BIFROST which will provide a single front entry Enterprise for all html-based capabilities for environmental content and services.	ssification enclaves. Continue mental impacts web services. a and software applications with point into the Air Force Weather					
FY 2023 Base Plans: Continue to enhance Mission Services, to include integration of contrails and clearning-based forecasts into environmental impacts web services. Continue to plug-ins to integrate weather data and software applications with various C2 systems.	o develop weather C2 visualization					
FY 2023 OCO Plans: N/A						
FY 2022 to FY 2023 Increase/Decrease Statement:  New PE transfer of funds and re-alignment of 3600 & 3400 appropriations cau for FY23.	sed increase of funding amounts					
Accomplishme	nts/Planned Programs Subtotals	0.000	0.000	58.063	0.000	58.063

PE 0308607F: *Air Force Weather Programs - Software Pi...* Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

Date: April 2022

Appropriation/Budget Activity R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software PE 0308607F I Air Force Weather Programs - Software Pilot Program

and Digital Technology Pilot Programs

### D. Other Program Funding Summary (\$ in Millions)

			FY 2023	FY 2023	FY 2023					Cost To	
Line Item	FY 2021	FY 2022	Base	000	<u>Total</u>	FY 2024	FY 2025	FY 2026	<b>FY 2027</b>	Complete	<b>Total Cost</b>
<ul> <li>RDTE 07 0305111F:</li> </ul>	9.317	11.661	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.978
WEATHER SERVICE											

#### Remarks

### E. Acquisition Strategy

WDA Inc 5: Sole Source, Small Business Innovation Research (SBIR) Phase III contract as primary contract activity, with augmenting pre-competed IDIQ contracts for specialized technical and software services.

WAPRSpeed: Multiple Firm Fixed Price and Cost Plus contracts procuring software development and sustainment services.

PE 0308607F: Air Force Weather Programs - Software Pi...
Air Force

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2023 Air F	orce								Date:	April 202	2			
Appropriation/Budg 3600 / 8	et Activity	1				PE 030	•	<i>\ir Force</i>	lumber/Na Weather F	•		(Number I Weathe	•	alysis Inc	; 5		
Product Developme	uct Development (\$ in Millions)		duct Development (\$ in Millions)			FY 2		FY 2	2022	FY 2023 Base		FY 2	2023 CO	FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract		
WDA INC 5	Various	Not specified. : TBD	-	0.000		0.000		39.493	Feb 2023	-		39.493	Continuing	Continuing	-		
		Subtotal	-	0.000		0.000		39.493		-		39.493	Continuing	Continuing	N/A		
Support (\$ in Millior	ıs)			FY 2021		FY 2	FY 2022		FY 2023 Base		2023 CO						
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract		
WARPSpeed	Various	Not specified. : TBD	-	0.000		0.000		18.570	Feb 2023	-		18.570	Continuing	Continuing	-		
		Subtotal	-	0.000		0.000		18.570		-		18.570	Continuing	Continuing	N/A		
			Prior Years	FY 2	2021	FY 2	2022	FY 2	2023 ase	FY 2	2023 CO	FY 2023 Total	Cost To	Total Cost	Target Value of Contract		
	_	Project Cost Totals	-	0.000		0.000		58.063		_		58 063	Continuina	Continuing	N/A		

Remarks

PE 0308607F: *Air Force Weather Programs - Software Pi...* Air Force

Exhibit R-4, RDT&E Schedule Profile: P	B 2023 Air F	orce	!																			Daf	te: A	April 2	202	22		
Appropriation/Budget Activity 3600 / 8		R-1 Program Element (Number/Name) PE 0308607F I Air Force Weather Programs - Software Pilot Program						•	(Number/Name) I Weather Data Analysis Inc 5																			
		FY	2021			FY 2	022			FY	2023	3		FY	2024			FY	2025	5		FY	202	6	$\top$	FY	202	 27
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	1 2	3	3 4
Weather Data Analysis		·	,										,	,														
WDA Inc 5																												
WARPSpeed																												

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force			Date: April 2022
3600 / 8	R-1 Program Element (Number/Name) PE 0308607F I Air Force Weather Programs - Software Pilot Program	• (	umber/Name) Veather Data Analysis Inc 5

# Schedule Details

	Start		Eı	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Weather Data Analysis				
WDA Inc 5	1	2023	3	2024
WARPSpeed	1	2023	3	2024



Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs

PE 0308608F I Electronic Warfare Integrated Reprogramming (EWIR) - Software Pilot Program

Date: April 2022

, ,															
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost			
Total Program Element	-	0.000	0.000	5.794	0.000	5.794	5.935	6.145	6.418	6.648	Continuing	Continuing			
682045: Electronic Warfare Integrated Reprogramming	-	0.000	0.000	5.794	0.000	5.794	5.935	6.145	6.418	6.648	Continuing	Continuing			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					

#### A. Mission Description and Budget Item Justification

Appropriation/Budget Activity

Develops software and data tools to perform Electronic Warfare Integrated Reprogramming (EWIR). 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 software and data tools 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 systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. Funding for this exhibit directly supports efforts funded in PE 0207439F, Electronic Warfare Integrated Reprogramming (EWIR). Program funding was moved from PE 0207439F OMAF to PE 0308608F BA-8 RDTE as part of the BA-8 software pilot program.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	5.794	0.000	5.794
Total Adjustments	0.000	0.000	5.794	0.000	5.794
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000			
<ul> <li>Reprogrammings</li> </ul>	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	5.794	0.000	5.794

PE 0308608F: Electronic Warfare Integrated Reprogramm...
Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force	Date: April 2022							
Appropriation/Budget Activity	R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software	PE 0308608F I Electronic Warfare Integrated Reprogramming (EWIR) - Software Pilot							
and Digital Technology Pilot Programs	ogram							

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: Software and Data Tool Development	-	0.000	5.794
Description: Software and data tool development in support of Electronic Warfare Integrated Reprogramming (EWIR).			
FY 2022 Plans: Software and data tool development in support of Electronic Warfare Integrated Reprogramming (EWIR).			
FY 2023 Plans: Software and data tool development in support of Electronic Warfare Integrated Reprogramming (EWIR).			
FY 2022 to FY 2023 Increase/Decrease Statement: Program funding was moved from PE 0207439F OMAF to PE 0308608F BA-8 RDTE as part of the BA-8 software pilot program.			
Accomplishments/Planned Programs Subtotals	-	0.000	5.794

# D. Other Program Funding Summary (\$ in Millions)

N/A

### **Remarks**

### E. Acquisition Strategy

Software and data tools in support of Electronic Warfare Integrated Reprogramming (EWIR) will be developed using a combination of contracted support and government teams.

PE 0308608F: Electronic Warfare Integrated Reprogramm...

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air F	ce		Date: April 2022				
Appropriation/Budget Activity 3600 / 8	PE 0308608F /	lement (Number/N Electronic Warfare ng (EWIR) - Softwa	Integrate	<b>Project (N</b> 682045 <i>I E</i> Reprogram	Electron	/ <b>Name)</b> ic Warfare Integrated	
Product Development (\$ in Millions)		FY 2023	FY 20	023 F	Y 2023		

Product Developme	nt (\$ in M	illions)		FY	2021	FY	2022	FY 2 Ba	2023 Ise		2023 CO	FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Software and Data Tool Development	C/CPAF	Various : Eglin AFB, FL	-	-		-		5.794	Apr 2023	-		5.794	Continuing	Continuing	-
		Subtotal	-	-		-		5.794		-		5.794	Continuing	Continuing	N/A
		Γ													Townst

	Prior Years	FY 2	2021	FY 2	2022	FY 2 Ba		2023 CO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		5.794	-		5.794	Continuing	Continuing	N/A

Remarks

PE 0308608F: *Electronic Warfare Integrated Reprogramm...*Air Force

Exhibit R-4, RDT&E Schedule Profile: PB 2023 A	Air Force					Date: April 2	2022	
Appropriation/Budget Activity 8600 / 8		PE d I	<b>1 Program Eleme</b> E 0308608F <i>I Elec</i> Re <i>programming (I</i> ogram	tronic Warfare In	tegrate 682045	t (Number/Nam i I Electronic Wa ramming	,	
	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	]

		FY 2021		FY 2022			FY 2023			FY 2024				FY 2025				FY 2026				FY 2027						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Software and Data Tool Development																												
Software and Data Tool Development																												

PE 0308608F: *Electronic Warfare Integrated Reprogramm...*Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force	Date: April 2022		
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 8	PE 0308608F I Electronic Warfare Integrate	682045 <i>I E</i>	Electronic Warfare Integrated
	d Reprogramming (EWIR) - Software Pilot	Reprogran	nming
	Program		

# Schedule Details

	St	d		
Events by Sub Project	Quarter	Year	Quarter	Year
Software and Data Tool Development				
Software and Data Tool Development	3	2023	3	2024

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