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**Department of Defense
Fiscal Year (FY) 2026 Budget Estimates**

June 2025



Air Force

Justification Book Volume 2 of 4

***Research, Development, Test & Evaluation, Air Force
Vol 2***

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Air Force • Budget Estimates FY 2026 • RDT&E Program

Table of Volumes

Budget Activities 1, 2, and 3.....Volume 1

Budget Activities 4 and 5.....Volume 2

Budget Activities 6 and 7.....Volume 3

Budget Activities 7.....Volume 4

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Air Force • Budget Estimates FY 2026 • RDT&E Program

Volume 2 Table of Contents

Introduction and Explanation of Contents.....Volume 2 - v

Comptroller Exhibit R-1..... Volume 2 - vii

Master Program Element Table of Contents (by Budget Activity then Line Item Number)..... Volume 2 - xxv

Master Program Element Table of Contents (Alphabetically by Program Element Title)..... Volume 2 - xliii

Summary Document.....Volume 2 - lix

OP-8.....Volume 2 - lxi

PB 2026 Discretionary Statement..... Volume 2 - lxxv

Acronyms..... Volume 2 - lxxvii

Exhibit R-2s..... Volume 2 - 1

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Fiscal Year (FY) 2026 President's Budget RDT&E Descriptive Summaries Budget Activities June 2025

INTRODUCTION AND EXPLANATION OF CONTENTS

GENERAL

- This document has been prepared to provide information on the United States Air Force (USAF) Research, Development, Test and Evaluation (RDT&E) program elements and projects in the FY26 President's Budget (PB).
 - All exhibits in this document have been assembled in accordance with DoD 7000.14R, Financial Management Regulation, Volume 2B, Chapter 5.
 - Other comments on exhibit contents in this document:
 - Exhibits R-2/2a and R-3 provide narrative information for all RDT&E program elements and projects within the USAF FY 2026 RDT&E program with the exception of classified program elements. The format and contents of this document are in accordance to the guidelines and requirements of the Congressional committees in so far as possible.
 - The "Other Program Funding Summary" portion of the R-2 includes, in addition to RDT&E funds, Procurement funds and quantities, Military Construction appropriation funds on specific development programs, Operations and Maintenance appropriation funds where they are essential to the development effort described, and where appropriate, Department of Energy (DOE) costs.

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- All exhibits contained in Volumes I, II, III, and IV are unclassified. Classified exhibits are not included in the submission due to the level of security classification and necessity of special security clearances.

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Department of Defense
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

<u>Appropriation</u>	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
Research, Development, Test and Evaluation, Air Force	47,693,850	46,811,425	69,278	46,880,703	52,017,288	10,226,620	62,243,908
Total Research, Development, Test, & Evaluation	47,693,850	46,811,425	69,278	46,880,703	52,017,288	10,226,620	62,243,908

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Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
1	0601102F	Defense Research Sciences	01	U	347,393	361,930		361,930	302,716		302,716
2	0601103F	University Research Initiatives	01	U	172,154	146,372		146,372	94,121		94,121
	Basic Research				519,547	508,302		508,302	396,837		396,837
3	0602020F	Future AF Capabilities Applied Research	02	U	77,903	70,277		70,277	78,214		78,214
4	0602022F	University Affiliated Research Center (UARC) - Tactical Autonomy	02	U	6,180	8,225		8,225	6,294		6,294
5	0602102F	Materials	02	U	274,790	185,336		185,336	147,422		147,422
6	0602201F	Aerospace Vehicle Technologies	02	U	188,530	15,235		15,235			
7	0602202F	Human Effectiveness Applied Research	02	U	138,098	137,425		137,425	133,928		133,928
8	0602203F	Aerospace Systems Technologies	02	U	233,413	333,320		333,320	321,059		321,059
9	0602204F	Aerospace Sensors	02	U	236,340	193,029		193,029	199,120		199,120
10	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02	U	111,692						
11	0602298F	Science and Technology Management - Major Headquarters Activities	02	U	10,303	9,662		9,662	10,813		10,813
12	0602336F	Nuclear Delivery Systems Tech Exploration	02	U					4,969		4,969
13	0602602F	Conventional Munitions	02	U	149,962	142,497		142,497	125,102		125,102
14	0602605F	Directed Energy Technology	02	U	111,169	98,012		98,012	92,331		92,331
15	0602788F	Dominant Information Sciences and Methods	02	U	337,052	207,333		207,333	187,036		187,036
	Applied Research				1,875,432	1,400,351		1,400,351	1,306,288		1,306,288
16	0603032F	Future AF Integrated Technology Demos	03	U	154,013	161,336		161,336	268,754		268,754

UNCLASSIFIED

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17	0603112F	Advanced Materials for Weapon Systems	03	U	55,005	32,161		32,161	31,021		31,021
18	0603199F	Sustainment Science and Technology (S&T)	03	U	9,710	5,668		5,668	12,915		12,915
19	0603203F	Advanced Aerospace Sensors	03	U	51,051	37,935		37,935	69,652		69,652
20	0603211F	Aerospace Technology Dev/Demo	03	U	131,596	91,719		91,719	102,125		102,125
21	0603216F	Aerospace Propulsion and Power Technology	03	U	92,129						
22	0603270F	Electronic Combat Technology	03	U	30,543	36,445		36,445			
23	0603273F	Science & Technology for Nuclear Re-entry Systems	03	U	65,088	91,885		91,885	128,407		128,407
24	0603444F	Maui Space Surveillance System (MSSS)	03	U	2						
25	0603456F	Human Effectiveness Advanced Technology Development	03	U	39,929	14,608		14,608	19,790		19,790
26	0603601F	Conventional Weapons Technology	03	U	122,854	125,460		125,460	99,263		99,263
27	0603605F	Advanced Weapons Technology	03	U	96,178	25,050		25,050	4,434		4,434
28	0603680F	Manufacturing Technology Program	03	U	165,721	116,130		116,130	38,891		38,891
29	0603788F	Battlespace Knowledge Development and Demonstration	03	U	59,611	53,672		53,672	30,812		30,812
30	0604776F	Deployment & Distribution Enterprise R&D	03	U		19,441		19,441	28,316		28,316
31	0207412F	Control and Reporting Center (CRC)	03	U		2,012		2,012			
Advanced Technology Development					1,073,430	813,522		813,522	834,380		834,380
32	0603260F	Intelligence Advanced Development	04	U	6,977	3,820		3,820	3,901		3,901
33	0603742F	Combat Identification Technology	04	U	15,922	16,790		16,790	25,172		25,172

UNCLASSIFIED

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Jun 2025

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34	0603790F	NATO Research and Development	04	U	2,208	2,298		2,298	4,595		4,595
35	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	U	51,948	125,561		125,561	90,096		90,096
36	0604001F	NC3 Advanced Concepts	04	U	5,274	5,448		5,448	15,910		15,910
37	0604003F	Advanced Battle Management System (ABMS)	04	U	455,382	611,943		611,943	1,040,475		1,040,475
38	0604004F	Advanced Engine Development	04	U	269,971	100,000		100,000			
39	0604005F	NC3 Commercial Development & Prototyping	04	U	66,406	52,524		52,524	67,081		67,081
40	0604007F	E-7	04	U	849,565	607,413		607,413	199,676		199,676
41	0604009F	AFWERX	04	U	97,250	62,580		62,580	18,499		18,499
42	0604010F	Next Generation Adaptive Propulsion	04	U	573,832	507,337		507,337	330,270		330,270
43	0604015F	Long Range Strike - Bomber	04	U	2,877,844	2,654,073		2,654,073	2,347,225	2,391,920	4,739,145
44	0604025F	Rapid Defense Experimentation Reserve (RDER)	04	U	62,595	75,051		75,051			
45	0604032F	Directed Energy Prototyping	04	U	1,246	1,312		1,312			
46	0604033F	Hypersonics Prototyping	04	U	27,903						
47	0604183F	Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	04	U	333,328	466,729		466,729	802,810		802,810
48	0604201F	PNT Resiliency, Mods, and Improvements	04	U	17,206						
49	0604257F	Advanced Technology and Sensors	04	U	22,616	15,865		15,865	40,779		40,779
50	0604283F	Battle Mgmt Com & Ctrl Sensor Development	04	U						150,000	150,000

UNCLASSIFIED

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FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
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(Dollars in Thousands)

Jun 2025

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51	0604288F	Survivable Airborne Operations Center (SAOC)	04	U	717,641	1,617,187		1,617,187			
52	0604317F	Technology Transfer	04	U	35,952	10,485		10,485	3,558		3,558
53	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	U	14,866	139,408		139,408	144,143		144,143
54	0604336F	Nuclear Delivery Systems Prototyping	04	U		39,079		39,079	56,926		56,926
55	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	U	35,712	45,555		45,555	46,148		46,148
56	0604609F	Requirements Analysis & Concept Maturation	04	U		12,622		12,622	22,754		22,754
57	0604668F	Joint Transportation Management System (JTMS)	04	U	26,036	74,103		74,103	129,626		129,626
58	0604776F	Deployment & Distribution Enterprise R&D	04	U	23,733	4,840		4,840	4,996		4,996
59	0604858F	Tech Transition Program	04	U	232,375	239,342		239,342	134,833	164,000	298,833
60	0604860F	Operational Energy and Installation Resilience	04	U	23,270	25,395		25,395	49,460		49,460
61	0605057F	Next Generation Air-refueling System	04	U	9,325	7,014		7,014	12,960		12,960
62	0605164F	Air Refueling Capability Modernization	04	U	15,201	13,661		13,661			
63	0606004F	Nuclear Enterprise Research & Development	04	U					1,097		1,097
64	0606005F	Digital Transformation Office	04	U	57,511	9,800		9,800	15,997		15,997
65	0207110F	F-47	04	U	2,346,905	2,424,208		2,424,208			
66	0207147F	Collaborative Combat Aircraft	04	U		711,747		711,747	111,365	678,000	789,365

UNCLASSIFIED

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FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
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Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

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67	0207179F	Autonomous Collaborative Platforms	04	U	110,945	50,666		50,666	62,019		62,019
68	0207420F	Combat Identification	04	U	1,902	1,914		1,914	1,713		1,713
69	0207423F	Advanced Communications Systems	04	U						5,500	5,500
70	0207448F	C2ISR Tactical Data Link	04	U		3,500		3,500			
71	0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	U	13,875	8,100		8,100	17,344		17,344
72	0207522F	Airbase Air Defense Systems (ABADS)	04	U	67,182	17,273		17,273	15,785	15,000	30,785
73	0207606F	Joint Simulation Environment (JSE)	04	U		149,502		149,502	260,667		260,667
74	0208030F	War Reserve Materiel - Ammunition	04	U	7,897	5,226		5,226	9,865		9,865
75	0303010F	AF ISR Digital Infrastructure	04	U		18,733		18,733	24,817	2,200	27,017
76	0305236F	Common Data Link Executive Agent (CDL EA)	04	U	25,157	33,349		33,349	32,511		32,511
77	0305601F	Mission Partner Environments	04	U	17,078	18,438		18,438	14,956		14,956
78	0701200F	Enterprise Select Class II	04	U					1,000		1,000
79	0708051F	Rapid Sustainment Modernization (RSM)	04	U	78,431	50,044		50,044	32,666		32,666
80	0808736F	Special Victim Accountability and Investigation	04	U		3,006		3,006	1,997		1,997
81	0808737F	Integrated Primary Prevention	04	U	9,021	5,364		5,364	5,167		5,167
82	0901410F	Contracting Information Technology System	04	U	22,964	28,995		28,995	29,277		29,277
83	1206415F	U.S. Space Command Research and Development Support	04	U	8,782	24,446		24,446	36,913		36,913
Advanced Component Development & Prototypes					9,639,234	11,101,746		11,101,746	6,267,049	3,406,620	9,673,669

UNCLASSIFIED

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FY 2026 President's Budget
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(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

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84	0604200F	Future Advanced Weapon Analysis & Programs	05	U	9,589	7,205		7,205	36,125		36,125
85	0604201F	PNT Resiliency, Mods, and Improvements	05	U	171,555	214,900		214,900	125,663		125,663
86	0604222F	Nuclear Weapons Support	05	U	44,219	70,823		70,823	79,312		79,312
87	0604270F	Electronic Warfare Development	05	U	23,673	13,754		13,754	17,013		17,013
88	0604281F	Tactical Data Networks Enterprise	05	U	82,369	78,480		78,480	77,170		77,170
89	0604287F	Physical Security Equipment	05	U	9,836	10,569		10,569	10,589		10,589
90	0604288F	Survivable Airborne Operations Center (SAOC)	05	U					1,826,328	6,800	1,833,128
91	0604602F	Armament/Ordnance Development	05	U	5,036	5,417		5,417	7,253		7,253
92	0604604F	Submunitions	05	U	3,345	3,427		3,427	3,502		3,502
93	0604617F	Agile Combat Support	05	U	50,747	23,635		23,635	23,474		23,474
94	0604706F	Life Support Systems	05	U	37,578	24,502		24,502	20,542		20,542
95	0604735F	Combat Training Ranges	05	U	56,609	160,783		160,783	139,499		139,499
96	0604932F	Long Range Standoff Weapon	05	U	856,942	593,926		593,926	606,955		606,955
97	0604933F	ICBM Fuze Modernization	05	U	40,447				3,252		3,252
98	0605030F	Joint Tactical Network Center (JTNC)	05	U	2,256						
99	0605031F	Joint Tactical Network (JTN)	05	U	452						
100	0605056F	Open Architecture Management	05	U	34,239	41,223		41,223	44,150		44,150
101	0605223F	Advanced Pilot Training	05	U	58,803	248,589		248,589	172,378		172,378
102	0605229F	HH-60W	05	U	39,815						

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
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103	0605238F	Ground Based Strategic Deterrent EMD	05	U	4,327,250	2,011,024		2,011,024	2,647,563	1,500,000	4,147,563
104	0605296F	Microelectronics Secure Enclave	05	U					104,990		104,990
105	0102417F	Over-the-Horizon Backscatter Radar	05	U	471,042	377,394		377,394			
106	0207039F	Cognitive Electromagnetic Warfare	05	U					44,267		44,267
107	0207110F	F-47	05	U					2,579,362	900,000	3,479,362
108	0207171F	F-15 EPAWSS	05	U	12,975						
109	0207279F	Isolated Personnel Survivability and Recovery	05	U	54,271	10,020		10,020	99,248		99,248
110	0207328F	Stand In Attack Weapon	05	U	220,978	346,341		346,341	255,336		255,336
111	0207407F	Electromagnetic Battle Management (EMBM)	05	U					20,439		20,439
112	0207701F	Full Combat Mission Training	05	U	7,597	7,754		7,754	12,898		12,898
113	0208036F	Medical C-CBRNE Programs	05	U	2,006						
114	0303008F	SATURN	05	U					4,985		4,985
115	0303267F	Auctioned Spectrum Relocation Fund	05	U	21,667						
116	0303867F	AMBIT - Post-Auctioned SRF	05	U	19,057						
117	0305155F	Theater Nuclear Weapon Storage & Security System	05	U		2,000		2,000	19,875		19,875
118	0305205F	Endurance Unmanned Aerial Vehicles	05	U	30,000						
119	0305282F	Joint Fires Network (JFN)	05	U						132,420	132,420
120	0401221F	KC-46A Tanker Squadrons	05	U	78,704	77,804		77,804	145,434		145,434
121	0401319F	VC-25B	05	U	94,750	433,943		433,943	602,318		602,318
122	0701212F	Automated Test Systems	05	U	10,007	21,634		21,634	30,341		30,341

UNCLASSIFIED

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123	0804772F	Training Developments	05	U	1,248	4,960		4,960	5,067		5,067
124	1203176F	Combat Survivor Evader Locator	05	U		1,135		1,135			
		System Development & Demonstration			6,879,062	4,791,242		4,791,242	9,765,328	2,539,220	12,304,548
125	0604256F	Threat Simulator Development	06	U	16,418	17,291		17,291	41,125		41,125
126	0604759F	Major T&E Investment	06	U	30,758	74,228		74,228	156,915		156,915
127	0605101F	RAND Project Air Force	06	U	30,998	39,720		39,720	32,405		32,405
128	0605502F	Small Business Innovation Research	06	U	947,652						
129	0605712F	Initial Operational Test & Evaluation	06	U	13,720	14,247		14,247	13,872		13,872
130	0605807F	Test and Evaluation Support	06	U	960,429	936,913		936,913	1,098,871		1,098,871
131	0605827F	Acq Workforce- Global Vig & Combat Sys	06	U	317,901	327,724		327,724			
132	0605828F	Acq Workforce- Global Reach	06	U	486,427	503,040		503,040			
133	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06	U	502,787	466,068		466,068	435,918		435,918
134	0605831F	Acq Workforce- Capability Integration	06	U	273,530	291,444		291,444	1,153,165		1,153,165
135	0605832F	Acq Workforce- Advanced Prgm Technology	06	U	72,767	68,182		68,182			
136	0605833F	Acq Workforce- Nuclear Systems	06	U	305,322	343,180		343,180	368,881		368,881
137	0605898F	Management HQ - R&D	06	U	6,705	6,291		6,291	5,960		5,960
138	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06	U	116,389	94,828		94,828	217,761		217,761

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
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139	0605978F	Facilities Sustainment - Test and Evaluation Support	06	U	56,218	63,579		63,579	91,969		91,969
140	0606017F	Requirements Analysis and Maturation	06	U	114,631	31,450		31,450	28,157		28,157
141	0606398F	Management HQ - T&E	06	U	7,748	7,647		7,647	7,417		7,417
142	0208201F	Offensive small Unmanned Aircraft Systems (sUAS)	06	U					4,985		4,985
143	0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM	06	U	45,725	39,607		39,607	15,662		15,662
144	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06	U	96,912	104,133		104,133	101,779		101,779
145	0702806F	Acquisition and Management Support	06	U	24,436	25,216		25,216	22,670		22,670
146	0804776F	Advanced Distributed Learning	06	U		828		828	1,698		1,698
147	0909999F	Financing for Cancelled Account Adjustments	06	U	2,696						
148	1001004F	International Activities	06	U	3,917	4,254		4,254	4,430		4,430
	Management Support				4,434,086	3,459,870		3,459,870	3,803,640		3,803,640
149	0604233F	Specialized Undergraduate Flight Training	07	U	26,265	30,043		30,043	66,200		66,200
150	0604283F	Battle Mgmt Com & Ctrl Sensor Development	07	U	27,388	69,040		69,040	17,353		17,353
151	0604445F	Wide Area Surveillance	07	U	9,269	21,443		21,443			
152	0604617F	Agile Combat Support	07	U	5,446						
153	0604840F	F-35 C2D2	07	U	1,236,710	1,134,207		1,134,207	1,182,094		1,182,094
154	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	U	63,451	49,739		49,739	64,050		64,050

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
155	0605024F	Anti-Tamper Technology Executive Agency	07	U	49,311	65,792		65,792	62,965		62,965
156	0605117F	Foreign Materiel Acquisition and Exploitation	07	U	166,851	94,188		94,188			
157	0605229F	HH-60W	07	U		39,629		39,629	43,579	15,129	58,708
158	0605278F	HC/MC-130 Recap RDT&E	07	U	13,195	16,085		16,085	50,845		50,845
159	0606018F	NC3 Integration	07	U	22,222	21,864		21,864	40,066		40,066
160	0101113F	B-52 Squadrons	07	U	880,341	1,051,116		1,051,116	931,164		931,164
161	0101122F	Air-Launched Cruise Missile (ALCM)	07	U	279	542		542	555		555
162	0101126F	B-1B Squadrons	07	U	12,291	17,939		17,939	116,589		116,589
163	0101127F	B-2 Squadrons	07	U	83,010	37,862		37,862	12,519		12,519
164	0101213F	Minuteman Squadrons	07	U	41,732	59,320		59,320	106,032		106,032
165	0101316F	Worldwide Joint Strategic Communications	07	U	23,522	13,690		13,690	24,081		24,081
166	0101318F	Service Support to STRATCOM - Global Strike	07	U	7,562	7,330		7,330	6,928		6,928
167	0101328F	ICBM Reentry Vehicles	07	U	452,306	392,423		392,423	259,605	100,000	359,605
169	0102110F	MH-139A	07	U	25,464	15,000		15,000	5,982		5,982
170	0102326F	Region/Sector Operation Control Center Modernization Program	07	U	831	852		852	726		726
171	0102417F	Over-the-Horizon Backscatter Radar	07	U					132,097	70,600	202,697
172	0202834F	Vehicles and Support Equipment - General	07	U	9,474	6,097		6,097	744		744
173	0205219F	MQ-9 UAV	07	U	82,393	7,074		7,074	26,689		26,689

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
174	0205671F	Joint Counter RCIED Electronic Warfare	07	U	2,303	3,372		3,372	3,424		3,424
175	0207040F	Multi-Platform Electronic Warfare Equipment	07	U	14,312						
176	0207133F	F-16 Squadrons	07	U	119,589	104,252		104,252	216,638		216,638
177	0207134F	F-15E Squadrons	07	U	40,348	158,603		158,603	233,018		233,018
178	0207136F	Manned Destructive Suppression	07	U	12,871	13,855		13,855	17,680		17,680
179	0207138F	F-22A Squadrons	07	U	640,109	758,754		758,754	852,332		852,332
180	0207142F	F-35 Squadrons	07	U	88,991	47,132		47,132	48,446		48,446
181	0207146F	F-15EX	07	U	101,996	56,228		56,228	78,345	2,100	80,445
182	0207161F	Tactical AIM Missiles	07	U	40,473	34,932		34,932	86,549		86,549
183	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	U	51,976	53,593		53,593	51,242		51,242
184	0207172F	Joint Advanced Tactical Missile (JATM)	07	U					425,029		425,029
185	0207227F	Combat Rescue - Pararescue	07	U	659	743		743			
186	0207238F	E-11A	07	U	23,044	30,967		30,967	15,244		15,244
187	0207242F	Special Program Applications	07	U						35,000	35,000
188	0207247F	AF TENCAP	07	U	30,649	50,263		50,263	52,492		52,492
189	0207249F	Precision Attack Systems Procurement	07	U	11,459	9,423		9,423	13,613		13,613
190	0207253F	Compass Call	07	U	62,555	132,475		132,475		63,137	63,137
191	0207268F	Aircraft Engine Component Improvement Program	07	U	58,262	60,498		60,498	52,734		52,734

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
192	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	U	129,314	181,692		181,692	232,252		232,252
193	0207327F	Small Diameter Bomb (SDB)	07	U	42,860	29,910		29,910	24,810		24,810
194	0207410F	Air & Space Operations Center (AOC)	07	U	69,798	65,102		65,102	113,086		113,086
195	0207412F	Control and Reporting Center (CRC)	07	U	17,074	16,856		16,856	17,569		17,569
196	0207418F	AFSPECWAR - TACP	07	U	1,622	1,433		1,433			
198	0207431F	Combat Air Intelligence System Activities	07	U	75,883	25,049		25,049	33,601		33,601
199	0207438F	Theater Battle Management (TBM) C4I	07	U	6,231	4,401		4,401	6,787		6,787
200	0207439F	Electromagnetic Warfare Int Reprog (EWIR)	07	U	10,007	13,577		13,577	60,072		60,072
201	0207444F	Tactical Air Control Party-Mod	07	U	24,093	12,171		12,171			
202	0207452F	DCAPES	07	U	6,686	8,431		8,431	8,507		8,507
203	0207457F	Air Force Special Warfare (SPECWAR)	07	U					27,526		27,526
204	0207521F	Air Force Calibration Programs	07	U	2,172	2,223		2,223	2,273		2,273
205	0207573F	National Technical Nuclear Forensics	07	U	1,974	2,060		2,060			
206	0207590F	Seek Eagle	07	U	33,417	34,985		34,985	33,707		33,707
207	0207605F	Wargaming and Simulation Centers	07	U	11,894						
208	0207611F	Readiness Decision Support Enterprise	07	U					8,880		8,880
209	0207697F	Distributed Training and Exercises	07	U	3,678	3,964		3,964	4,399		4,399
210	0207701F	Full Combat Mission Training	07	U		3,948		3,948	8,096		8,096

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
211	0208006F	Mission Planning Systems	07	U	83,500	80,709		80,709	138,745		138,745
212	0208007F	Tactical Deception	07	U	35,250	539		539	13,711		13,711
213	0208087F	Distributed Cyber Warfare Operations	07	U	40,457	29,996		29,996	31,197		31,197
214	0208088F	AF Defensive Cyberspace Operations	07	U	62,058	89,618		89,618	95,034		95,034
218	0208288F	Intel Data Applications	07	U	5,217	988		988	1,012	6,700	7,712
219	0301025F	GeoBase	07	U	1,458				999		999
220	0301113F	Cyber Security Intelligence Support	07	U	8,476	18,141		18,141	14,749		14,749
226	0301377F	Countering Advanced Conventional Weapons (CACW)	07	U		834		834	1,117		1,117
228	0301401F	AF Multi-Domain Non-Traditional ISR Battlespace Awareness	07	U	2,890	3,006		3,006	2,987		2,987
229	0302015F	E-4B National Airborne Operations Center (NAOC)	07	U	42,074	57,441		57,441	54,457		54,457
230	0302315F	Non-Kinetic Countermeasure Support	07	U		7,590		7,590	7,006		7,006
231	0303004F	EIT CONNECT	07	U	7,923	16,120		16,120			
232	0303089F	Cyberspace and DoDIN Operations	07	U	4,738	9,776		9,776	10,080		10,080
233	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	U	31,099	25,500		25,500	99,599		99,599
234	0303133F	High Frequency Radio Systems	07	U	26,370	8,667		8,667	19,955		19,955
235	0303140F	Information Systems Security Program	07	U	89,233	94,424		94,424	98,414		98,414
236	0303248F	All Domain Common Platform	07	U	69,565	82,927		82,927	76,642		76,642
237	0303260F	Joint Military Deception Initiative	07	U	4,510	7,324		7,324	356		356

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
238	0304100F	Strategic Mission Planning & Execution System (SMPES)	07	U	62,807	69,441		69,441	75,164		75,164
239	0304109F	THRESHER	07	U					105		105
242	0304260F	Airborne SIGINT Enterprise	07	U	113,429	85,284		85,284	90,650		90,650
243	0304310F	Commercial Economic Analysis	07	U	4,245	4,719		4,719	4,127		4,127
246	0305015F	C2 Air Operations Suite - C2 Info Services	07	U	13,273	13,524		13,524			
247	0305020F	CCMD Intelligence Information Technology	07	U	1,660	1,836		1,836	1,547		1,547
248	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07	U	15,180	19,409		19,409	22,237		22,237
249	0305099F	Global Air Traffic Management (GATM)	07	U	4,928	5,151		5,151	4,257		4,257
250	0305103F	Cyber Security Initiative	07	U		304		304	310		310
251	0305111F	Weather Service	07	U	52,701	40,782		40,782	30,509		30,509
252	0305114F	Air Traffic Control, Approach, and Landing System (ATCALs)	07	U	25,910	15,143		15,143	17,259		17,259
253	0305116F	Aerial Targets	07	U	6,671	6,085		6,085	5,081		5,081
256	0305128F	Security and Investigative Activities	07	U	339	481		481	8,964		8,964
257	0305146F	Defense Joint Counterintelligence Activities	07	U	6,930	6,387		6,387	6,524		6,524
258	0305158F	Tactical Terminal	07	U		501		501	1,099		1,099
259	0305179F	Integrated Broadcast Service (IBS)	07	U	18,540	16,006		16,006	19,085		19,085
260	0305202F	Dragon U-2	07	U	16,842						
261	0305206F	Airborne Reconnaissance Systems	07	U	56,158	84,363		84,363	25,432		25,432

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
262	0305207F	Manned Reconnaissance Systems	07	U	14,330	16,323		16,323	16,643		16,643
263	0305208F	Distributed Common Ground/Surface Systems	07	U	92,354	86,476		86,476	79,033		79,033
264	0305220F	RQ-4 UAV	07	U	1,242	6,171		6,171			
265	0305221F	Network-Centric Collaborative Targeting	07	U	20,696	8,952		8,952	12,019		12,019
266	0305238F	NATO AGS	07	U	2	865		865	816		816
267	0305240F	ISR Transport and Processing	07	U	33,589	30,932		30,932	32,578		32,578
268	0305249F	AF JWICS Enterprise	07	U		9,445		9,445	21,097		21,097
269	0305600F	International Intelligence Technology and Architectures	07	U	15,322	17,784		17,784	18,946		18,946
270	0305836F	C2IMERA	07	U					13,867		13,867
271	0305881F	Rapid Cyber Acquisition	07	U	8,482						
272	0305903F	COCOM Mobile Command and Control Centers (MCCCs)	07	U					3,988		3,988
273	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07	U	3,162	2,831		2,831	2,891		2,891
274	0307577F	Intelligence Mission Data (IMD)	07	U	7,090	3,658		3,658	3,000		3,000
275	0401115F	C-130 Airlift Squadron	07	U	21,959						
276	0401119F	C-5 Airlift Squadrons (IF)	07	U	25,938	32,903		32,903	33,713		33,713
277	0401130F	C-17 Aircraft (IF)	07	U	2,702	11,986		11,986	76,514	4,410	80,924
278	0401132F	C-130J Program	07	U	21,469	63,533		63,533	31,354		31,354
279	0401134F	Large Aircraft IR Countermeasures (LAIRCM)	07	U	3,909	7,768		7,768	52,928		52,928
280	0401218F	KC-135s	07	U	71,854	9,899		9,899		43,000	43,000

UNCLASSIFIED

Department of the Air Force
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

Appropriation: 3600F Research, Development, Test and Evaluation, Air Force

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request ¹	FY 2026 Reconciliation Request	FY 2026 Total
281	0401318F	CV-22	07	U	16,581	26,249		26,249	653	30,857	31,510
282	0408011F	Special Tactics / Combat Control	07	U	7,711	9,421		9,421			
283	0708610F	Logistics Information Technology (LOGIT)	07	U	20,682	11,895		11,895	18,581		18,581
284	0801380F	AF LVC Operational Training (LVC-OT)	07	U	21,423	27,535		27,535	33,898		33,898
285	0804743F	Other Flight Training	07	U	2,182	1,159		1,159	2,371		2,371
286	0901202F	Joint Personnel Recovery Agency	07	U	2,158	2,320		2,320	2,080		2,080
287	0901218F	Civilian Compensation Program	07	U	3,703	4,267		4,267	4,355		4,355
288	0901220F	Personnel Administration	07	U	3,559	3,163		3,163	2,766		2,766
289	0901226F	Air Force Studies and Analysis Agency	07	U	875	9,941		9,941	14,761		14,761
290	0901538F	Financial Management Information Systems Development	07	U	4,093	5,634		5,634	3,982		3,982
291	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07	U	48,412	57,689		57,689	38,942		38,942
292	1201921F	Service Support to STRATCOM - Space Activities	07	U					335		335
293	1202140F	Service Support to SPACECOM Activities	07	U	9,752						
999	999999999	Classified Programs	07	U	16,897,785	18,292,410	69,278	18,361,688	22,264,031	3,909,847	26,173,878
		Operational Systems Development			23,273,059	24,736,392	69,278	24,805,670	29,643,766	4,280,780	33,924,546
Total Research, Development, Test and Evaluation, Air Force					47,693,850	46,811,425	69,278	46,880,703	52,017,288	10,226,620	62,243,908

1. FY 2024 includes \$6,958K in OOC Actuals. FY 2025 includes \$2,819K in OOC Enactment. FY 2026 includes \$2,012K for the OOC Budget Estimate.

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Air Force • Budget Estimates FY 2026 • RDT&E Program

Master Program Element Table of Contents (by Budget Activity then Line Item Number)

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
1	01	0601102F	Defense Research Sciences.....	Volume 1 - 1
2	01	0601103F	University Research Initiatives.....	Volume 1 - 21

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
3	02	0602020F	Future AF Capabilities Applied Research.....	Volume 1 - 27
4	02	0602022F	University Affiliated Research Center (UARC) - Tactical Autonomy.....	Volume 1 - 35
5	02	0602102F	Materials.....	Volume 1 - 39
6	02	0602201F	Aerospace Vehicle Technologies.....	Volume 1 - 63
7	02	0602202F	Human Effectiveness Applied Research.....	Volume 1 - 77
8	02	0602203F	Aerospace Systems Technologies.....	Volume 1 - 109
9	02	0602204F	Aerospace Sensors.....	Volume 1 - 175
10	02	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358).....	Volume 1 - 207

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
11	02	0602298F	Science and Technology Management - Major Headquarters Activities.....	Volume 1 - 209
12	02	0602336F	Nuclear Delivery Systems Tech Exploration.....	Volume 1 - 213
13	02	0602602F	Conventional Munitions.....	Volume 1 - 217
14	02	0602605F	Directed Energy Technology.....	Volume 1 - 233
15	02	0602788F	Dominant Information Sciences and Methods.....	Volume 1 - 245

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
16	03	0603032F	Future AF Integrated Technology Demos.....	Volume 1 - 267
17	03	0603112F	Advanced Materials for Weapon Systems.....	Volume 1 - 289
18	03	0603199F	Sustainment Science and Technology (S&T).....	Volume 1 - 301
19	03	0603203F	Advanced Aerospace Sensors.....	Volume 1 - 305
20	03	0603211F	Aerospace Technology Dev/Demo.....	Volume 1 - 319
21	03	0603216F	Aerospace Propulsion and Power Technology.....	Volume 1 - 343
22	03	0603270F	Electronic Combat Technology.....	Volume 1 - 355
23	03	0603273F	Science & Technology for Nuclear Re-entry Systems.....	Volume 1 - 363

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
24	03	0603444F	Maui Space Surveillance System (MSSS).....	Volume 1 - 373
25	03	0603456F	Human Effectiveness Advanced Technology Development.....	Volume 1 - 375
26	03	0603601F	Conventional Weapons Technology.....	Volume 1 - 391
27	03	0603605F	Advanced Weapons Technology.....	Volume 1 - 401
28	03	0603680F	Manufacturing Technology Program.....	Volume 1 - 407
29	03	0603788F	Battlespace Knowledge Development and Demonstration.....	Volume 1 - 419
30	03	0604776F	Deployment & Distribution Enterprise R&D.....	Volume 1 - 433
31	03	0207412F	Control and Reporting Center (CRC).....	Volume 1 - 453

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
32	04	0603260F	Intelligence Advanced Development.....	Volume 2 - 1
33	04	0603742F	Combat Identification Technology.....	Volume 2 - 13
34	04	0603790F	NATO Research and Development.....	Volume 2 - 35
35	04	0603851F	Intercontinental Ballistic Missile - Dem/Val.....	Volume 2 - 41
36	04	0604001F	NC3 Advanced Concepts.....	Volume 2 - 69

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
37	04	0604003F	Advanced Battle Management System (ABMS).....	Volume 2 - 75
38	04	0604004F	Advanced Engine Development.....	Volume 2 - 99
39	04	0604005F	NC3 Commercial Development & Prototyping.....	Volume 2 - 111
40	04	0604007F	E-7.....	Volume 2 - 119
41	04	0604009F	AFWERX.....	Volume 2 - 127
42	04	0604010F	Next Generation Adaptive Propulsion.....	Volume 2 - 143
43	04	0604015F	Long Range Strike - Bomber.....	Volume 2 - 151
44	04	0604025F	Rapid Defense Experimentation Reserve (RDER).....	Volume 2 - 163
45	04	0604032F	Directed Energy Prototyping.....	Volume 2 - 175
46	04	0604033F	Hypersonics Prototyping.....	Volume 2 - 181
47	04	0604183F	Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM).....	Volume 2 - 189
48	04	0604201F	PNT Resiliency, Mods, and Improvements.....	Volume 2 - 199
49	04	0604257F	Advanced Technology and Sensors.....	Volume 2 - 207
51	04	0604288F	Survivable Airborne Operations Center (SAOC).....	Volume 2 - 223
52	04	0604317F	Technology Transfer.....	Volume 2 - 231
53	04	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program.....	Volume 2 - 251
54	04	0604336F	Nuclear Delivery Systems Prototyping.....	Volume 2 - 261
55	04	0604414F	Cyber Resiliency of Weapon Systems-ACS.....	Volume 2 - 269

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
56	04	0604609F	Requirements Analysis & Concept Maturation.....	Volume 2 - 289
57	04	0604668F	Joint Transportation Management System (JTMS).....	Volume 2 - 307
58	04	0604776F	Deployment & Distribution Enterprise R&D.....	Volume 2 - 315
59	04	0604858F	Tech Transition Program.....	Volume 2 - 333
60	04	0604860F	Operational Energy and Installation Resilience.....	Volume 2 - 369
61	04	0605057F	Next Generation Air-refueling System.....	Volume 2 - 391
62	04	0605164F	Air Refueling Capability Modernization.....	Volume 2 - 399
63	04	0606004F	Commercial Capability Integration and Transition.....	Volume 2 - 405
64	04	0606005F	Digital Transformation Office.....	Volume 2 - 411
65	04	0207110F	F-47.....	Volume 2 - 419
66	04	0207147F	Collaborative Combat Aircraft.....	Volume 2 - 431
67	04	0207179F	Autonomous Collaborative Platforms.....	Volume 2 - 439
68	04	0207420F	Combat Identification.....	Volume 2 - 451
70	04	0207448F	C2ISR Tactical Data Link.....	Volume 2 - 457
71	04	0207455F	Three Dimensional Long-Range Radar (3DELRR).....	Volume 2 - 463
72	04	0207522F	Airbase Air Defense Systems (ABADS).....	Volume 2 - 471
73	04	0207606F	Joint Simulation Environment (JSE).....	Volume 2 - 481
74	04	0208030F	War Reserve Materiel - Ammunition.....	Volume 2 - 493

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
75	04	0303010F	AF ISR Digital Infrastructure.....	Volume 2 - 501
76	04	0305236F	Common Data Link Executive Agent (CDL EA).....	Volume 2 - 513
77	04	0305601F	Mission Partner Environments.....	Volume 2 - 525
78	04	0701200F	Enterprise Select Class II.....	Volume 2 - 531
79	04	0708051F	Rapid Sustainment Modernization (RSM).....	Volume 2 - 537
80	04	0808736F	Special Victim Accountability and Investigation.....	Volume 2 - 545
81	04	0808737F	Integrated Primary Prevention.....	Volume 2 - 553
82	04	0901410F	Contracting Information Technology System.....	Volume 2 - 563
83	04	1206415F	U.S. Space Command Research and Development Support.....	Volume 2 - 573

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
84	05	0604200F	Future Advanced Weapon Analysis & Programs.....	Volume 2 - 585
85	05	0604201F	PNT Resiliency, Mods, and Improvements.....	Volume 2 - 595
86	05	0604222F	Nuclear Weapons Support.....	Volume 2 - 607
87	05	0604270F	Electronic Warfare Development.....	Volume 2 - 633

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
88	05	0604281F	Tactical Data Networks Enterprise.....	Volume 2 - 645
89	05	0604287F	Physical Security Equipment.....	Volume 2 - 659
90	05	0604288F	Survivable Airborne Operations Center (SAOC).....	Volume 2 - 667
91	05	0604602F	Armament/Ordnance Development.....	Volume 2 - 675
92	05	0604604F	Submunitions.....	Volume 2 - 691
93	05	0604617F	Agile Combat Support.....	Volume 2 - 699
94	05	0604706F	Life Support Systems.....	Volume 2 - 717
95	05	0604735F	Combat Training Ranges.....	Volume 2 - 725
96	05	0604932F	Long Range Standoff Weapon.....	Volume 2 - 737
97	05	0604933F	ICBM Fuze Modernization.....	Volume 2 - 749
98	05	0605030F	Joint Tactical Network Center (JTNC).....	Volume 2 - 757
99	05	0605031F	Joint Tactical Network (JTN).....	Volume 2 - 765
100	05	0605056F	Open Architecture Management.....	Volume 2 - 773
101	05	0605223F	Advanced Pilot Training.....	Volume 2 - 781
102	05	0605229F	HH-60W.....	Volume 2 - 791
103	05	0605238F	Ground Based Strategic Deterrent EMD.....	Volume 2 - 801
104	05	0605296F	Microelectronics Secure Enclave.....	Volume 2 - 823
105	05	0102417F	Over-the-Horizon Backscatter Radar.....	Volume 2 - 829

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
106	05	0207039F	Cognitive Electromagnetic Warfare.....	Volume 2 - 849
107	05	0207110F	F-47.....	Volume 2 - 855
108	05	0207171F	F-15 EPAWSS.....	Volume 2 - 861
109	05	0207279F	Isolated Personnel Survivability and Recovery.....	Volume 2 - 869
110	05	0207328F	Stand In Attack Weapon.....	Volume 2 - 885
111	05	0207407F	Electromagnetic Battle Management (EMBM).....	Volume 2 - 895
112	05	0207701F	Full Combat Mission Training.....	Volume 2 - 903
113	05	0208036F	Medical C-CBRNE Programs.....	Volume 2 - 913
114	05	0303008F	SATURN.....	Volume 2 - 919
117	05	0305155F	Theater Nuclear Weapon Storage & Security System.....	Volume 2 - 925
118	05	0305205F	Endurance Unmanned Aerial Vehicles.....	Volume 2 - 931
120	05	0401221F	KC-46A Tanker Squadrons.....	Volume 2 - 937
121	05	0401319F	VC-25B.....	Volume 2 - 965
122	05	0701212F	Automated Test Systems.....	Volume 2 - 973
123	05	0804772F	Training Developments.....	Volume 2 - 989
124	05	1203176F	Combat Survivor Evader Locator.....	Volume 2 - 997

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
125	06	0604256F	Threat Simulator Development.....	Volume 3 - 1
126	06	0604759F	Major T&E Investment.....	Volume 3 - 11
127	06	0605101F	RAND Project Air Force.....	Volume 3 - 19
129	06	0605712F	Initial Operational Test & Evaluation.....	Volume 3 - 29
130	06	0605807F	Test and Evaluation Support.....	Volume 3 - 35
131	06	0605827F	Acq Workforce- Global Vig & Combat Sys.....	Volume 3 - 43
132	06	0605828F	Acq Workforce- Global Reach.....	Volume 3 - 47
133	06	0605829F	Acq Workforce- Cyber, Network, & Bus Sys.....	Volume 3 - 53
134	06	0605831F	Acq Workforce- Capability Integration.....	Volume 3 - 61
135	06	0605832F	Acq Workforce- Advanced Prgm Technology.....	Volume 3 - 73
136	06	0605833F	Acq Workforce- Nuclear Systems.....	Volume 3 - 77
137	06	0605898F	Management HQ - R&D.....	Volume 3 - 81
138	06	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support.....	Volume 3 - 85
139	06	0605978F	Facilities Sustainment - Test and Evaluation Support.....	Volume 3 - 89
140	06	0606017F	Requirements Analysis and Maturation.....	Volume 3 - 95
141	06	0606398F	Management HQ - T&E.....	Volume 3 - 107

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
142	06	0208201F	Offensive small Unmanned Aircraft Systems (sUAS).....	Volume 3 - 109
143	06	0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM.....	Volume 3 - 111
144	06	0308602F	ENTEPRISE INFORMATION SERVICES (EIS).....	Volume 3 - 117
145	06	0702806F	Acquisition and Management Support.....	Volume 3 - 127
146	06	0804776F	Advanced Distributed Learning.....	Volume 3 - 135
148	06	1001004F	International Activities.....	Volume 3 - 137

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
149	07	0604233F	Specialized Undergraduate Flight Training.....	Volume 3 - 141
150	07	0604283F	Battle Mgmt Com & Ctrl Sensor Development.....	Volume 3 - 161
151	07	0604445F	Wide Area Surveillance.....	Volume 3 - 169
152	07	0604617F	Agile Combat Support.....	Volume 3 - 175
153	07	0604840F	F-35 C2D2.....	Volume 3 - 183
154	07	0605018F	AF Integrated Personnel and Pay System (AF-IPPS).....	Volume 3 - 265
155	07	0605024F	Anti-Tamper Technology Executive Agency.....	Volume 3 - 277

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
156	07	0605117F	Foreign Materiel Acquisition and Exploitation.....	Volume 3 - 285
157	07	0605229F	HH-60W.....	Volume 3 - 291
158	07	0605278F	HC/MC-130 Recap RDT&E.....	Volume 3 - 311
159	07	0606018F	NC3 Integration.....	Volume 3 - 329
160	07	0101113F	B-52 Squadrons.....	Volume 3 - 337
161	07	0101122F	Air-Launched Cruise Missile (ALCM).....	Volume 3 - 403
162	07	0101126F	B-1B Squadrons.....	Volume 3 - 409
163	07	0101127F	B-2 Squadrons.....	Volume 3 - 423
164	07	0101213F	Minuteman Squadrons.....	Volume 3 - 439
165	07	0101316F	Worldwide Joint Strategic Communications.....	Volume 3 - 467
166	07	0101318F	Service Support to STRATCOM - Global Strike.....	Volume 3 - 475
167	07	0101328F	ICBM Reentry Vehicles.....	Volume 3 - 483
169	07	0102110F	MH-139A.....	Volume 3 - 501
170	07	0102326F	Region/Sector Operation Control Center Modernization Program.....	Volume 3 - 517
171	07	0102417F	Over-the-Horizon Backscatter Radar.....	Volume 3 - 523
172	07	0202834F	Vehicles and Support Equipment - General.....	Volume 3 - 531
173	07	0205219F	MQ-9 UAV.....	Volume 3 - 539
174	07	0205671F	Joint Counter RCIED Electronic Warfare.....	Volume 3 - 559

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
175	07	0207040F	Multi-Platform Electronic Warfare Equipment.....	Volume 3 - 565
176	07	0207133F	F-16 Squadrons.....	Volume 3 - 573
177	07	0207134F	F-15E Squadrons.....	Volume 3 - 591
178	07	0207136F	Manned Destructive Suppression.....	Volume 3 - 603
179	07	0207138F	F-22A Squadrons.....	Volume 3 - 611
180	07	0207142F	F-35 Squadrons.....	Volume 3 - 629
181	07	0207146F	F-15EX.....	Volume 3 - 645
182	07	0207161F	Tactical AIM Missiles.....	Volume 3 - 653
183	07	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM).....	Volume 3 - 661
184	07	0207172F	Joint Advanced Tactical Missile (JATM).....	Volume 3 - 671
185	07	0207227F	Combat Rescue - Pararescue.....	Volume 3 - 673
186	07	0207238F	E-11A.....	Volume 3 - 679
188	07	0207247F	AF TENCAP.....	Volume 3 - 691
189	07	0207249F	Precision Attack Systems Procurement.....	Volume 3 - 699
190	07	0207253F	Compass Call.....	Volume 3 - 705
191	07	0207268F	Aircraft Engine Component Improvement Program.....	Volume 3 - 713
192	07	0207325F	Joint Air-to-Surface Standoff Missile (JASSM).....	Volume 3 - 729
193	07	0207327F	Small Diameter Bomb (SDB).....	Volume 3 - 739

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
194	07	0207410F	Air & Space Operations Center (AOC).....	Volume 4 - 1
195	07	0207412F	Control and Reporting Center (CRC).....	Volume 4 - 19
196	07	0207418F	AFSPECWAR - TACP.....	Volume 4 - 27
198	07	0207431F	Combat Air Intelligence System Activities.....	Volume 4 - 35
199	07	0207438F	Theater Battle Management (TBM) C4I.....	Volume 4 - 53
200	07	0207439F	Electromagnetic Warfare Int Reprog (EWIR).....	Volume 4 - 59
201	07	0207444F	Tactical Air Control Party-Mod.....	Volume 4 - 79
202	07	0207452F	DCAPES.....	Volume 4 - 91
203	07	0207457F	Air Force Special Warfare (SPECWAR).....	Volume 4 - 109
204	07	0207521F	Air Force Calibration Programs.....	Volume 4 - 141
205	07	0207573F	National Technical Nuclear Forensics.....	Volume 4 - 149
206	07	0207590F	Seek Eagle.....	Volume 4 - 155
207	07	0207605F	Wargaming and Simulation Centers.....	Volume 4 - 165
208	07	0207611F	Readiness Decision Support Enterprise.....	Volume 4 - 175
209	07	0207697F	Distributed Training and Exercises.....	Volume 4 - 181
210	07	0207701F	Full Combat Mission Training.....	Volume 4 - 189
211	07	0208006F	Mission Planning Systems.....	Volume 4 - 199
212	07	0208007F	Tactical Deception.....	Volume 4 - 223

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
213	07	0208087F	Distributed Cyber Warfare Operations.....	Volume 4 - 231
214	07	0208088F	AF Defensive Cyberspace Operations.....	Volume 4 - 243
218	07	0208288F	Intel Data Applications.....	Volume 4 - 281
219	07	0301025F	GeoBase.....	Volume 4 - 287
220	07	0301113F	Cyber Security Intelligence Support.....	Volume 4 - 293
226	07	0301377F	Countering Advanced Conventional Weapons (CACW).....	Volume 4 - 299
228	07	0301401F	AF Multi-Domain Non-Traditional ISR Battlespace Awareness.....	Volume 4 - 305
229	07	0302015F	E-4B National Airborne Operations Center (NAOC).....	Volume 4 - 311
230	07	0302315F	Non-Kinetic Countermeasure Support.....	Volume 4 - 319
231	07	0303004F	EIT CONNECT.....	Volume 4 - 327
232	07	0303089F	Cyberspace and DoDIN Operations.....	Volume 4 - 333
233	07	0303131F	Minimum Essential Emergency Communications Network (MEECN).....	Volume 4 - 339
234	07	0303133F	High Frequency Radio Systems.....	Volume 4 - 367
235	07	0303140F	Information Systems Security Program.....	Volume 4 - 377
236	07	0303248F	All Domain Common Platform.....	Volume 4 - 399
237	07	0303260F	Joint Military Deception Initiative.....	Volume 4 - 409
238	07	0304100F	Strategic Mission Planning & Execution System (SMPES).....	Volume 4 - 415
239	07	0304109F	THRESHER.....	Volume 4 - 431

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
242	07	0304260F	Airborne SIGINT Enterprise.....	Volume 4 - 437
243	07	0304310F	Commercial Economic Analysis.....	Volume 4 - 461
246	07	0305015F	C2 Air Operations Suite - C2 Info Services.....	Volume 4 - 467
247	07	0305020F	CCMD Intelligence Information Technology.....	Volume 4 - 475
248	07	0305022F	ISR Modernization & Automation Dvmt (IMAD).....	Volume 4 - 481
249	07	0305099F	Global Air Traffic Management (GATM).....	Volume 4 - 493
250	07	0305103F	Cyber Security Initiative.....	Volume 4 - 501
251	07	0305111F	Weather Service.....	Volume 4 - 507
252	07	0305114F	Air Traffic Control, Approach, and Landing System (ATCALS).....	Volume 4 - 521
253	07	0305116F	Aerial Targets.....	Volume 4 - 535
256	07	0305128F	Security and Investigative Activities.....	Volume 4 - 545
257	07	0305146F	Defense Joint Counterintelligence Activities.....	Volume 4 - 551
258	07	0305158F	Tactical Terminal.....	Volume 4 - 557
259	07	0305179F	Integrated Broadcast Service (IBS).....	Volume 4 - 569
260	07	0305202F	Dragon U-2.....	Volume 4 - 579
261	07	0305206F	Airborne Reconnaissance Systems.....	Volume 4 - 585
262	07	0305207F	Manned Reconnaissance Systems.....	Volume 4 - 627
263	07	0305208F	Distributed Common Ground/Surface Systems.....	Volume 4 - 637

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
264	07	0305220F	RQ-4 UAV.....	Volume 4 - 653
265	07	0305221F	Network-Centric Collaborative Targeting.....	Volume 4 - 661
266	07	0305238F	NATO AGS.....	Volume 4 - 669
267	07	0305240F	ISR Transport and Processing.....	Volume 4 - 675
268	07	0305249F	AF JWICS Enterprise.....	Volume 4 - 687
269	07	0305600F	International Intelligence Technology and Architectures.....	Volume 4 - 695
270	07	0305836F	C2IMERA.....	Volume 4 - 703
271	07	0305881F	Rapid Cyber Acquisition.....	Volume 4 - 711
272	07	0305903F	Mobile Command Center Systems (MC2S).....	Volume 4 - 717
273	07	0305984F	Personnel Recovery Command & Ctrl (PRC2).....	Volume 4 - 723
274	07	0307577F	Intelligence Mission Data (IMD).....	Volume 4 - 731
275	07	0401115F	C-130 Airlift Squadron.....	Volume 4 - 737
276	07	0401119F	C-5 Airlift Squadrons (IF).....	Volume 4 - 745
277	07	0401130F	C-17 Aircraft (IF).....	Volume 4 - 761
278	07	0401132F	C-130J Program.....	Volume 4 - 771
279	07	0401134F	Large Aircraft IR Countermeasures (LAIRCM).....	Volume 4 - 787
280	07	0401218F	KC-135s.....	Volume 4 - 807
281	07	0401318F	CV-22.....	Volume 4 - 819

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
282	07	0408011F	Special Tactics / Combat Control.....	Volume 4 - 827
283	07	0708610F	Logistics Information Technology (LOGIT).....	Volume 4 - 835
284	07	0801380F	AF LVC Operational Training (LVC-OT).....	Volume 4 - 847
285	07	0804743F	Other Flight Training.....	Volume 4 - 861
286	07	0901202F	Joint Personnel Recovery Agency.....	Volume 4 - 875
287	07	0901218F	Civilian Compensation Program.....	Volume 4 - 881
288	07	0901220F	Personnel Administration.....	Volume 4 - 887
289	07	0901226F	Air Force Studies and Analysis Agency.....	Volume 4 - 895
290	07	0901538F	Financial Management Information Systems Development.....	Volume 4 - 905
291	07	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS).....	Volume 4 - 915
292	07	1201921F	Service Support to STRATCOM - Space Activities.....	Volume 4 - 925
293	07	1202140F	Service Support to SPACECOM Activities.....	Volume 4 - 933

UNCLASSIFIED

UNCLASSIFIED

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UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Master Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line #	BA	Page
AF Defensive Cyberspace Operations	0208088F	214	07.....	Volume 4 - 243
AF ISR Digital Infrastructure	0303010F	75	04.....	Volume 2 - 501
AF Integrated Personnel and Pay System (AF-IPPS)	0605018F	154	07.....	Volume 3 - 265
AF JWICS Enterprise	0305249F	268	07.....	Volume 4 - 687
AF LVC Operational Training (LVC-OT)	0801380F	284	07.....	Volume 4 - 847
AF Multi-Domain Non-Traditional ISR Battlespace Awareness	0301401F	228	07.....	Volume 4 - 305
AF TENCAP	0207247F	188	07.....	Volume 3 - 691
AFSPECWAR - TACP	0207418F	196	07.....	Volume 4 - 27
AFWERX	0604009F	41	04.....	Volume 2 - 127
Acq Workforce- Advanced Prgm Technology	0605832F	135	06.....	Volume 3 - 73
Acq Workforce- Capability Integration	0605831F	134	06.....	Volume 3 - 61
Acq Workforce- Cyber, Network, & Bus Sys	0605829F	133	06.....	Volume 3 - 53
Acq Workforce- Global Reach	0605828F	132	06.....	Volume 3 - 47
Acq Workforce- Global Vig & Combat Sys	0605827F	131	06.....	Volume 3 - 43
Acq Workforce- Nuclear Systems	0605833F	136	06.....	Volume 3 - 77
Acquisition and Management Support	0702806F	145	06.....	Volume 3 - 127
Advanced Aerospace Sensors	0603203F	19	03.....	Volume 1 - 305

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Advanced Battle Management System (ABMS)	0604003F	37	04.....	Volume 2 - 75
Advanced Distributed Learning	0804776F	146	06.....	Volume 3 - 135
Advanced Engine Development	0604004F	38	04.....	Volume 2 - 99
Advanced Materials for Weapon Systems	0603112F	17	03.....	Volume 1 - 289
Advanced Medium Range Air-to-Air Missile (AMRAAM)	0207163F	183	07.....	Volume 3 - 661
Advanced Pilot Training	0605223F	101	05.....	Volume 2 - 781
Advanced Technology and Sensors	0604257F	49	04.....	Volume 2 - 207
Advanced Weapons Technology	0603605F	27	03.....	Volume 1 - 401
Aerial Targets	0305116F	253	07.....	Volume 4 - 535
Aerospace Propulsion and Power Technology	0603216F	21	03.....	Volume 1 - 343
Aerospace Sensors	0602204F	9	02.....	Volume 1 - 175
Aerospace Systems Technologies	0602203F	8	02.....	Volume 1 - 109
Aerospace Technology Dev/Demo	0603211F	20	03.....	Volume 1 - 319
Aerospace Vehicle Technologies	0602201F	6	02.....	Volume 1 - 63
Agile Combat Support	0604617F	93	05.....	Volume 2 - 699
Agile Combat Support	0604617F	152	07.....	Volume 3 - 175
Air & Space Operations Center (AOC)	0207410F	194	07.....	Volume 4 - 1
Air Force Calibration Programs	0207521F	204	07.....	Volume 4 - 141
Air Force Special Warfare (SPECWAR)	0207457F	203	07.....	Volume 4 - 109

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Air Force Studies and Analysis Agency	0901226F	289	07.....	Volume 4 - 895
Air Refueling Capability Modernization	0605164F	62	04.....	Volume 2 - 399
Air Traffic Control, Approach, and Landing System (ATCALs)	0305114F	252	07.....	Volume 4 - 521
Air-Launched Cruise Missile (ALCM)	0101122F	161	07.....	Volume 3 - 403
Airbase Air Defense Systems (ABADS)	0207522F	72	04.....	Volume 2 - 471
Airborne Reconnaissance Systems	0305206F	261	07.....	Volume 4 - 585
Airborne SIGINT Enterprise	0304260F	242	07.....	Volume 4 - 437
Aircraft Engine Component Improvement Program	0207268F	191	07.....	Volume 3 - 713
All Domain Common Platform	0303248F	236	07.....	Volume 4 - 399
Anti-Tamper Technology Executive Agency	0605024F	155	07.....	Volume 3 - 277
Armament/Ordnance Development	0604602F	91	05.....	Volume 2 - 675
Automated Test Systems	0701212F	122	05.....	Volume 2 - 973
Autonomous Collaborative Platforms	0207179F	67	04.....	Volume 2 - 439
B-1B Squadrons	0101126F	162	07.....	Volume 3 - 409
B-2 Squadrons	0101127F	163	07.....	Volume 3 - 423
B-52 Squadrons	0101113F	160	07.....	Volume 3 - 337
Battle Mgmt Com & Ctrl Sensor Development	0604283F	150	07.....	Volume 3 - 161
Battlespace Knowledge Development and Demonstration	0603788F	29	03.....	Volume 1 - 419
C-130 Airlift Squadron	0401115F	275	07.....	Volume 4 - 737

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
C-130J Program	0401132F	278	07.....	Volume 4 - 771
C-17 Aircraft (IF)	0401130F	277	07.....	Volume 4 - 761
C-5 Airlift Squadrons (IF)	0401119F	276	07.....	Volume 4 - 745
C2 Air Operations Suite - C2 Info Services	0305015F	246	07.....	Volume 4 - 467
C2IMERA	0305836F	270	07.....	Volume 4 - 703
C2ISR Tactical Data Link	0207448F	70	04.....	Volume 2 - 457
CCMD Intelligence Information Technology	0305020F	247	07.....	Volume 4 - 475
CV-22	0401318F	281	07.....	Volume 4 - 819
Civilian Compensation Program	0901218F	287	07.....	Volume 4 - 881
Cognitive Electromagnetic Warfare	0207039F	106	05.....	Volume 2 - 849
Collaborative Combat Aircraft	0207147F	66	04.....	Volume 2 - 431
Combat Air Intelligence System Activities	0207431F	198	07.....	Volume 4 - 35
Combat Identification	0207420F	68	04.....	Volume 2 - 451
Combat Identification Technology	0603742F	33	04.....	Volume 2 - 13
Combat Rescue - Pararescue	0207227F	185	07.....	Volume 3 - 673
Combat Survivor Evader Locator	1203176F	124	05.....	Volume 2 - 997
Combat Training Ranges	0604735F	95	05.....	Volume 2 - 725
Command, Control, Communication, and Computers (C4) - STRATCOM	0303255F	143	06.....	Volume 3 - 111
Commercial Capability Integration and Transition	0606004F	63	04.....	Volume 2 - 405

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Commercial Economic Analysis	0304310F	243	07.....	Volume 4 - 461
Common Data Link Executive Agent (CDL EA)	0305236F	76	04.....	Volume 2 - 513
Compass Call	0207253F	190	07.....	Volume 3 - 705
Contracting Information Technology System	0901410F	82	04.....	Volume 2 - 563
Control and Reporting Center (CRC)	0207412F	31	03.....	Volume 1 - 453
Control and Reporting Center (CRC)	0207412F	195	07.....	Volume 4 - 19
Conventional Munitions	0602602F	13	02.....	Volume 1 - 217
Conventional Weapons Technology	0603601F	26	03.....	Volume 1 - 391
Countering Advanced Conventional Weapons (CACW)	0301377F	226	07.....	Volume 4 - 299
Cyber Resiliency of Weapon Systems-ACS	0604414F	55	04.....	Volume 2 - 269
Cyber Security Initiative	0305103F	250	07.....	Volume 4 - 501
Cyber Security Intelligence Support	0301113F	220	07.....	Volume 4 - 293
Cyberspace and DoDIN Operations	0303089F	232	07.....	Volume 4 - 333
DCAPES	0207452F	202	07.....	Volume 4 - 91
Defense Enterprise Acntng and Mgt Sys (DEAMS)	0901554F	291	07.....	Volume 4 - 915
Defense Joint Counterintelligence Activities	0305146F	257	07.....	Volume 4 - 551
Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	0602212F	10	02.....	Volume 1 - 207
Defense Research Sciences	0601102F	1	01.....	Volume 1 - 1
Deployment & Distribution Enterprise R&D	0604776F	30	03.....	Volume 1 - 433

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Deployment & Distribution Enterprise R&D	0604776F	58	04.....	Volume 2 - 315
Digital Transformation Office	0606005F	64	04.....	Volume 2 - 411
Directed Energy Prototyping	0604032F	45	04.....	Volume 2 - 175
Directed Energy Technology	0602605F	14	02.....	Volume 1 - 233
Distributed Common Ground/Surface Systems	0305208F	263	07.....	Volume 4 - 637
Distributed Cyber Warfare Operations	0208087F	213	07.....	Volume 4 - 231
Distributed Training and Exercises	0207697F	209	07.....	Volume 4 - 181
Dominant Information Sciences and Methods	0602788F	15	02.....	Volume 1 - 245
Dragon U-2	0305202F	260	07.....	Volume 4 - 579
E-11A	0207238F	186	07.....	Volume 3 - 679
E-4B National Airborne Operations Center (NAOC)	0302015F	229	07.....	Volume 4 - 311
E-7	0604007F	40	04.....	Volume 2 - 119
EIT CONNECT	0303004F	231	07.....	Volume 4 - 327
ENTEPRISE INFORMATION SERVICES (EIS)	0308602F	144	06.....	Volume 3 - 117
Electromagnetic Battle Management (EMBM)	0207407F	111	05.....	Volume 2 - 895
Electromagnetic Warfare Int Reprog (EWIR)	0207439F	200	07.....	Volume 4 - 59
Electronic Combat Technology	0603270F	22	03.....	Volume 1 - 355
Electronic Warfare Development	0604270F	87	05.....	Volume 2 - 633
Endurance Unmanned Aerial Vehicles	0305205F	118	05.....	Volume 2 - 931

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Enterprise Select Class II	0701200F	78	04.....	Volume 2 - 531
F-15 EPAWSS	0207171F	108	05.....	Volume 2 - 861
F-15E Squadrons	0207134F	177	07.....	Volume 3 - 591
F-15EX	0207146F	181	07.....	Volume 3 - 645
F-16 Squadrons	0207133F	176	07.....	Volume 3 - 573
F-22A Squadrons	0207138F	179	07.....	Volume 3 - 611
F-35 C2D2	0604840F	153	07.....	Volume 3 - 183
F-35 Squadrons	0207142F	180	07.....	Volume 3 - 629
F-47	0207110F	65	04.....	Volume 2 - 419
F-47	0207110F	107	05.....	Volume 2 - 855
Facilities Restoration and Modernization - Test and Evaluation Support	0605976F	138	06.....	Volume 3 - 85
Facilities Sustainment - Test and Evaluation Support	0605978F	139	06.....	Volume 3 - 89
Financial Management Information Systems Development	0901538F	290	07.....	Volume 4 - 905
Foreign Materiel Acquisition and Exploitation	0605117F	156	07.....	Volume 3 - 285
Full Combat Mission Training	0207701F	112	05.....	Volume 2 - 903
Full Combat Mission Training	0207701F	210	07.....	Volume 4 - 189
Future AF Capabilities Applied Research	0602020F	3	02.....	Volume 1 - 27
Future AF Integrated Technology Demos	0603032F	16	03.....	Volume 1 - 267
Future Advanced Weapon Analysis & Programs	0604200F	84	05.....	Volume 2 - 585

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
GeoBase	0301025F	219	07.....	Volume 4 - 287
Global Air Traffic Management (GATM)	0305099F	249	07.....	Volume 4 - 493
Ground Based Strategic Deterrent EMD	0605238F	103	05.....	Volume 2 - 801
HC/MC-130 Recap RDT&E	0605278F	158	07.....	Volume 3 - 311
HH-60W	0605229F	102	05.....	Volume 2 - 791
HH-60W	0605229F	157	07.....	Volume 3 - 291
Hard and Deeply Buried Target Defeat System (HDBTDS) Program	0604327F	53	04.....	Volume 2 - 251
High Frequency Radio Systems	0303133F	234	07.....	Volume 4 - 367
Human Effectiveness Advanced Technology Development	0603456F	25	03.....	Volume 1 - 375
Human Effectiveness Applied Research	0602202F	7	02.....	Volume 1 - 77
Hypersonics Prototyping	0604033F	46	04.....	Volume 2 - 181
Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	0604183F	47	04.....	Volume 2 - 189
ICBM Fuze Modernization	0604933F	97	05.....	Volume 2 - 749
ICBM Reentry Vehicles	0101328F	167	07.....	Volume 3 - 483
ISR Modernization & Automation Dvmt (IMAD)	0305022F	248	07.....	Volume 4 - 481
ISR Transport and Processing	0305240F	267	07.....	Volume 4 - 675
Information Systems Security Program	0303140F	235	07.....	Volume 4 - 377
Initial Operational Test & Evaluation	0605712F	129	06.....	Volume 3 - 29
Integrated Broadcast Service (IBS)	0305179F	259	07.....	Volume 4 - 569

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Integrated Primary Prevention	0808737F	81	04.....	Volume 2 - 553
Intel Data Applications	0208288F	218	07.....	Volume 4 - 281
Intelligence Advanced Development	0603260F	32	04.....	Volume 2 - 1
Intelligence Mission Data (IMD)	0307577F	274	07.....	Volume 4 - 731
Intercontinental Ballistic Missile - Dem/Val	0603851F	35	04.....	Volume 2 - 41
International Activities	1001004F	148	06.....	Volume 3 - 137
International Intelligence Technology and Architectures	0305600F	269	07.....	Volume 4 - 695
Isolated Personnel Survivability and Recovery	0207279F	109	05.....	Volume 2 - 869
Joint Advanced Tactical Missile (JATM)	0207172F	184	07.....	Volume 3 - 671
Joint Air-to-Surface Standoff Missile (JASSM)	0207325F	192	07.....	Volume 3 - 729
Joint Counter RCIED Electronic Warfare	0205671F	174	07.....	Volume 3 - 559
Joint Military Deception Initiative	0303260F	237	07.....	Volume 4 - 409
Joint Personnel Recovery Agency	0901202F	286	07.....	Volume 4 - 875
Joint Simulation Environment (JSE)	0207606F	73	04.....	Volume 2 - 481
Joint Tactical Network (JTN)	0605031F	99	05.....	Volume 2 - 765
Joint Tactical Network Center (JTNC)	0605030F	98	05.....	Volume 2 - 757
Joint Transportation Management System (JTMS)	0604668F	57	04.....	Volume 2 - 307
KC-135s	0401218F	280	07.....	Volume 4 - 807
KC-46A Tanker Squadrons	0401221F	120	05.....	Volume 2 - 937

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Large Aircraft IR Countermeasures (LAIRCM)	0401134F	279	07.....	Volume 4 - 787
Life Support Systems	0604706F	94	05.....	Volume 2 - 717
Logistics Information Technology (LOGIT)	0708610F	283	07.....	Volume 4 - 835
Long Range Standoff Weapon	0604932F	96	05.....	Volume 2 - 737
Long Range Strike - Bomber	0604015F	43	04.....	Volume 2 - 151
MH-139A	0102110F	169	07.....	Volume 3 - 501
MQ-9 UAV	0205219F	173	07.....	Volume 3 - 539
Major T&E Investment	0604759F	126	06.....	Volume 3 - 11
Management HQ - R&D	0605898F	137	06.....	Volume 3 - 81
Management HQ - T&E	0606398F	141	06.....	Volume 3 - 107
Manned Destructive Suppression	0207136F	178	07.....	Volume 3 - 603
Manned Reconnaissance Systems	0305207F	262	07.....	Volume 4 - 627
Manufacturing Technology Program	0603680F	28	03.....	Volume 1 - 407
Materials	0602102F	5	02.....	Volume 1 - 39
Maui Space Surveillance System (MSSS)	0603444F	24	03.....	Volume 1 - 373
Medical C-CBRNE Programs	0208036F	113	05.....	Volume 2 - 913
Microelectronics Secure Enclave	0605296F	104	05.....	Volume 2 - 823
Minimum Essential Emergency Communications Network (MEECN)	0303131F	233	07.....	Volume 4 - 339
Minuteman Squadrons	0101213F	164	07.....	Volume 3 - 439

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Mission Partner Environments	0305601F	77	04.....	Volume 2 - 525
Mission Planning Systems	0208006F	211	07.....	Volume 4 - 199
Mobile Command Center Systems (MC2S)	0305903F	272	07.....	Volume 4 - 717
Multi-Platform Electronic Warfare Equipment	0207040F	175	07.....	Volume 3 - 565
NATO AGS	0305238F	266	07.....	Volume 4 - 669
NATO Research and Development	0603790F	34	04.....	Volume 2 - 35
NC3 Advanced Concepts	0604001F	36	04.....	Volume 2 - 69
NC3 Commercial Development & Prototyping	0604005F	39	04.....	Volume 2 - 111
NC3 Integration	0606018F	159	07.....	Volume 3 - 329
National Technical Nuclear Forensics	0207573F	205	07.....	Volume 4 - 149
Network-Centric Collaborative Targeting	0305221F	265	07.....	Volume 4 - 661
Next Generation Adaptive Propulsion	0604010F	42	04.....	Volume 2 - 143
Next Generation Air-refueling System	0605057F	61	04.....	Volume 2 - 391
Non-Kinetic Countermeasure Support	0302315F	230	07.....	Volume 4 - 319
Nuclear Delivery Systems Prototyping	0604336F	54	04.....	Volume 2 - 261
Nuclear Delivery Systems Tech Exploration	0602336F	12	02.....	Volume 1 - 213
Nuclear Weapons Support	0604222F	86	05.....	Volume 2 - 607
Offensive small Unmanned Aircraft Systems (sUAS)	0208201F	142	06.....	Volume 3 - 109
Open Architecture Management	0605056F	100	05.....	Volume 2 - 773

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Operational Energy and Installation Resilience	0604860F	60	04.....	Volume 2 - 369
Other Flight Training	0804743F	285	07.....	Volume 4 - 861
Over-the-Horizon Backscatter Radar	0102417F	105	05.....	Volume 2 - 829
Over-the-Horizon Backscatter Radar	0102417F	171	07.....	Volume 3 - 523
PNT Resiliency, Mods, and Improvements	0604201F	48	04.....	Volume 2 - 199
PNT Resiliency, Mods, and Improvements	0604201F	85	05.....	Volume 2 - 595
Personnel Administration	0901220F	288	07.....	Volume 4 - 887
Personnel Recovery Command & Ctrl (PRC2)	0305984F	273	07.....	Volume 4 - 723
Physical Security Equipment	0604287F	89	05.....	Volume 2 - 659
Precision Attack Systems Procurement	0207249F	189	07.....	Volume 3 - 699
RAND Project Air Force	0605101F	127	06.....	Volume 3 - 19
RQ-4 UAV	0305220F	264	07.....	Volume 4 - 653
Rapid Cyber Acquisition	0305881F	271	07.....	Volume 4 - 711
Rapid Defense Experimentation Reserve (RDER)	0604025F	44	04.....	Volume 2 - 163
Rapid Sustainment Modernization (RSM)	0708051F	79	04.....	Volume 2 - 537
Readiness Decision Support Enterprise	0207611F	208	07.....	Volume 4 - 175
Region/Sector Operation Control Center Modernization Program	0102326F	170	07.....	Volume 3 - 517
Requirements Analysis & Concept Maturation	0604609F	56	04.....	Volume 2 - 289
Requirements Analysis and Maturation	0606017F	140	06.....	Volume 3 - 95

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
SATURN	0303008F	114	05.....	Volume 2 - 919
Science & Technology for Nuclear Re-entry Systems	0603273F	23	03.....	Volume 1 - 363
Science and Technology Management - Major Headquarters Activities	0602298F	11	02.....	Volume 1 - 209
Security and Investigative Activities	0305128F	256	07.....	Volume 4 - 545
Seek Eagle	0207590F	206	07.....	Volume 4 - 155
Service Support to SPACECOM Activities	1202140F	293	07.....	Volume 4 - 933
Service Support to STRATCOM - Global Strike	0101318F	166	07.....	Volume 3 - 475
Service Support to STRATCOM - Space Activities	1201921F	292	07.....	Volume 4 - 925
Small Diameter Bomb (SDB)	0207327F	193	07.....	Volume 3 - 739
Special Tactics / Combat Control	0408011F	282	07.....	Volume 4 - 827
Special Victim Accountability and Investigation	0808736F	80	04.....	Volume 2 - 545
Specialized Undergraduate Flight Training	0604233F	149	07.....	Volume 3 - 141
Stand In Attack Weapon	0207328F	110	05.....	Volume 2 - 885
Strategic Mission Planning & Execution System (SMPES)	0304100F	238	07.....	Volume 4 - 415
Submunitions	0604604F	92	05.....	Volume 2 - 691
Survivable Airborne Operations Center (SAOC)	0604288F	51	04.....	Volume 2 - 223
Survivable Airborne Operations Center (SAOC)	0604288F	90	05.....	Volume 2 - 667
Sustainment Science and Technology (S&T)	0603199F	18	03.....	Volume 1 - 301
THRESHER	0304109F	239	07.....	Volume 4 - 431

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Tactical AIM Missiles	0207161F	182	07.....	Volume 3 - 653
Tactical Air Control Party-Mod	0207444F	201	07.....	Volume 4 - 79
Tactical Data Networks Enterprise	0604281F	88	05.....	Volume 2 - 645
Tactical Deception	0208007F	212	07.....	Volume 4 - 223
Tactical Terminal	0305158F	258	07.....	Volume 4 - 557
Tech Transition Program	0604858F	59	04.....	Volume 2 - 333
Technology Transfer	0604317F	52	04.....	Volume 2 - 231
Test and Evaluation Support	0605807F	130	06.....	Volume 3 - 35
Theater Battle Management (TBM) C4I	0207438F	199	07.....	Volume 4 - 53
Theater Nuclear Weapon Storage & Security System	0305155F	117	05.....	Volume 2 - 925
Threat Simulator Development	0604256F	125	06.....	Volume 3 - 1
Three Dimensional Long-Range Radar (3DELRR)	0207455F	71	04.....	Volume 2 - 463
Training Developments	0804772F	123	05.....	Volume 2 - 989
U.S. Space Command Research and Development Support	1206415F	83	04.....	Volume 2 - 573
University Affiliated Research Center (UARC) - Tactical Autonomy	0602022F	4	02.....	Volume 1 - 35
University Research Initiatives	0601103F	2	01.....	Volume 1 - 21
VC-25B	0401319F	121	05.....	Volume 2 - 965
Vehicles and Support Equipment - General	0202834F	172	07.....	Volume 3 - 531
War Reserve Materiel - Ammunition	0208030F	74	04.....	Volume 2 - 493

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2026 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Wargaming and Simulation Centers	0207605F	207	07.....	Volume 4 - 165
Weather Service	0305111F	251	07.....	Volume 4 - 507
Wide Area Surveillance	0604445F	151	07.....	Volume 3 - 169
Worldwide Joint Strategic Communications	0101316F	165	07.....	Volume 3 - 467

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Department of Defense
FY 2026 President's Budget
Exhibit R-1 FY 2026 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Jun 2025

	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request ¹	FY 2026 Reconciliation Request	FY 2026 Total
<u>Summary Recap of Budget Activities</u>							
Basic Research	519,547	508,302		508,302	396,837		396,837
Applied Research	1,875,432	1,400,351		1,400,351	1,306,288		1,306,288
Advanced Technology Development	1,073,430	813,522		813,522	834,380		834,380
Advanced Component Development & Prototypes	9,639,234	11,101,746		11,101,746	6,267,049	3,406,620	9,673,669
System Development & Demonstration	6,879,062	4,791,242		4,791,242	9,765,328	2,539,220	12,304,548
Management Support	4,434,086	3,459,870		3,459,870	3,803,640		3,803,640
Operational Systems Development	23,273,059	24,736,392	69,278	24,805,670	29,643,766	4,280,780	33,924,546
Total Research, Development, Test, & Evaluation	47,693,850	46,811,425	69,278	46,880,703	52,017,288	10,226,620	62,243,908
<u>Summary Recap of FYDP Programs</u>							
Strategic Forces	1,998,380	1,973,468		1,973,468	1,596,278	170,600	1,766,878
General Purpose Forces	4,901,181	5,874,176		5,874,176	6,530,776	1,705,437	8,236,213
Intelligence and Communications	1,139,814	1,100,863		1,100,863	1,118,174	134,620	1,252,794
Mobility Forces	345,577	673,506		673,506	942,914	78,267	1,021,181
Research and Development	22,132,772	18,603,517		18,603,517	19,271,818	4,227,849	23,499,667
Central Supply and Maintenance	133,556	108,789		108,789	105,258		105,258
Training Medical and Other	33,874	42,852		42,852	50,198		50,198
Administration and Associated Activities	88,460	112,009		112,009	96,163		96,163
Support of Other Nations	3,917	4,254		4,254	4,430		4,430
Space	18,534	25,581		25,581	37,248		37,248
Classified Programs	16,897,785	18,292,410	69,278	18,361,688	22,264,031	3,909,847	26,173,878
Total Research, Development, Test, & Evaluation	47,693,850	46,811,425	69,278	46,880,703	52,017,288	10,226,620	62,243,908

1. FY 2024 includes \$6,958K in OOC Actuals. FY 2025 includes \$2,819K in OOC Enactment. FY 2026 includes \$2,012K for the OOC Budget Estimate.

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Department of the Air Force
TOTAL CIVILIAN PERSONNEL COSTS
OP-8B: OP-8 (PB)
FY 2026 President's Budget Submission
(FY 2024)

	(\$ in Thousands)											Rates				
	a Begin Strength	b End Strength	c FTEs	d Basic Comp	e Overtime Pay	f Holiday Pay	g Other O.C.11	e + f + g h Total Variables	d + h i Comp O.C.11	j Benefits O.C.12/13	i + j k Comp & Benefits	d/c l Basic Comp	i/c m Total Comp	Rates k/c n Comp & Benefits	h/d o % BC Variables	j/d p % BC Benefits
Direct Funded Personnel (includes OC 13)	20,333	19,927	19,969	2,489,673	0	0	0	0	2,489,673	1,100,619	3,590,292	\$124,677	\$124,677	\$179,793	0.0%	44.2%
D1. US Direct Hire (USDH)	20,329	19,925	19,967	2,489,341	-	-	-	-	2,489,341	1,100,619	3,589,960	\$124,673	\$124,673	\$179,795	0.0%	44.2%
D1a. Senior Executive Schedule	23	75	75	11,567	-	-	-	-	11,567	4,164	15,731	\$154,227	\$154,227	\$209,747	0.0%	36.0%
D1b. General Schedule	19,425	16,594	16,636	2,251,683	-	-	-	-	2,251,683	1,015,062	3,266,745	\$135,350	\$135,350	\$196,366	0.0%	45.1%
D1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1d. Wage System	881	3,256	3,256	226,091	-	-	-	-	226,091	81,393	307,484	\$69,438	\$69,438	\$94,436	0.0%	36.0%
D1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1f. Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2. Direct Hire Program Foreign Nationals (DHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D3. Total Direct Hire	20,329	19,925	19,967	2,489,341	-	-	-	-	2,489,341	1,100,619	3,589,960	\$124,673	\$124,673	\$179,795	0.0%	44.2%
D4. Indirect Hire Foreign Nationals (IHFN)	4	2	2	332	-	-	-	-	332	0	332	\$166,000	\$166,000	\$166,000	0.0%	0.0%
Subtotal - Direct Funded (excludes OC 13)	20,333	19,927	19,969	2,489,673	-	-	-	-	2,489,673	1,100,619	3,590,292	\$124,677	\$124,677	\$179,793	0.0%	44.2%
D5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5c. Voluntary Separation Incentive Pay (VSIP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5d. Foreign National Separation Liability Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reimbursable Funded Personnel (includes OC 13)	2,788	4,007	4,007	544,987	0	0	0	0	544,987	0	544,987	\$136,009	\$136,009	\$136,009	0.0%	0.0%
R1. US Direct Hire (USDH)	2,788	4,007	4,007	544,987	-	-	-	-	544,987	-	544,987	\$136,009	\$136,009	\$136,009	0.0%	0.0%
R1a. Senior Executive Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1b. General Schedule	2,788	4,007	4,007	544,987	-	-	-	-	544,987	-	544,987	\$136,009	\$136,009	\$136,009	0.0%	0.0%
R1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1d. Wage System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1f. Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R2. Direct Hire Program Foreign Nationals (DHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R3. Total Direct Hire	2,788	4,007	4,007	544,987	-	-	-	-	544,987	-	544,987	\$136,009	\$136,009	\$136,009	0.0%	0.0%
R4. Indirect Hire Foreign Nationals (IHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal - Reimbursable Funded (excludes OC 13)	2,788	4,007	4,007	544,987	-	-	-	-	544,987	-	544,987	\$136,009	\$136,009	\$136,009	0.0%	0.0%
R5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5c. Voluntary Separation Incentive Pay (VSIP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5d. Foreign National Separation Liability Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Personnel (includes OC 13)	23,121	23,934	23,976	3,034,660	0	0	0	0	3,034,660	1,100,619	4,135,279	\$126,571	\$126,571	\$172,476	0.0%	36.3%
T1. US Direct Hire (USDH)	23,117	23,932	23,974	3,034,328	-	-	-	-	3,034,328	1,100,619	4,134,947	\$126,567	\$126,567	\$172,476	0.0%	36.3%
T1a. Senior Executive Schedule	23	75	75	11,567	0	0	0	0	11,567	4,164	15,731	\$154,227	\$154,227	\$209,747	0.0%	36.0%
T1b. General Schedule	22,213	20,601	20,643	2,796,670	0	0	0	0	2,796,670	1,015,062	3,811,732	\$135,478	\$135,478	\$184,650	0.0%	36.3%
T1c. Special Schedule	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1d. Wage System	881	3,256	3,256	226,091	0	0	0	0	226,091	81,393	307,484	\$69,438	\$69,438	\$94,436	0.0%	36.0%
T1e. Highly Qualified Experts	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1f. Other	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T2. Direct Hire Program Foreign Nationals (DHFN)	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T3. Total Direct Hire	23,117	23,932	23,974	3,034,328	-	-	-	-	3,034,328	1,100,619	4,134,947	\$126,567	\$126,567	\$172,476	0.0%	36.3%
T4. Indirect Hire Foreign Nationals (IHFN)	4	2	2	332	0	0	0	0	332	0	332	\$166,000	\$166,000	\$166,000	0.0%	0.0%
Subtotal - Total Funded (excludes OC 13)	23,121	23,934	23,976	3,034,660	-	-	-	-	3,034,660	1,100,619	4,135,279	\$126,571	\$126,571	\$172,476	0.0%	36.3%
T5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5c. Voluntary Separation Incentive Pay (VSIP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5d. Foreign National Separation Liability Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Department of the Air Force
TOTAL CIVILIAN PERSONNEL COSTS
OP-8B: OP-8 (PB)
FY 2026 President's Budget Submission
(FY 2025)

	(S in Thousands)											Rates				
	a Begin Strength	b End Strength	c FTEs	d Basic Comp	e Overtime Pay	f Holiday Pay	g Other O.C.11	e + f + g h Total Variables	d + h i Comp O.C.11	j Benefits O.C.12/13	i + j k Comp & Benefits	d/c l Basic Comp	i/c m Total Comp	k/c n Comp & Benefits	h/d o % BC Variables	j/d p % BC Benefits
Direct Funded Personnel (includes OC 13)	19,927	19,949	19,949	2,367,894	0	0	0	0	2,367,894	723,652	3,091,546	\$118,697	\$118,697	\$154,972	0.0%	30.6%
D1. US Direct Hire (USDH)	19,925	19,947	19,947	2,367,562	-	-	-	-	2,367,562	723,652	3,091,214	\$118,693	\$118,693	\$154,971	0.0%	30.6%
D1a. Senior Executive Schedule	75	75	75	13,500					13,500	4,860	18,360	\$180,000	\$180,000	\$244,800	0.0%	36.0%
D1b. General Schedule	16,594	16,616	16,616	2,106,606					2,106,606	629,708	2,736,314	\$126,782	\$126,782	\$164,679	0.0%	29.9%
D1c. Special Schedule	-	-	-	-					-	-	-	-	-	-	-	-
D1d. Wage System	3,256	3,256	3,256	247,456					247,456	89,084	336,540	\$76,000	\$76,000	\$103,360	0.0%	36.0%
D1e. Highly Qualified Experts	-	-	-	-					-	-	-	-	-	-	-	-
D1f. Other	-	-	-	-					-	-	-	-	-	-	-	-
D2. Direct Hire Program Foreign Nationals (DHFN)	-	-	-	-					-	-	-	-	-	-	-	-
D3. Total Direct Hire	19,925	19,947	19,947	2,367,562	-	-	-	-	2,367,562	723,652	3,091,214	\$118,693	\$118,693	\$154,971	0.0%	30.6%
D4. Indirect Hire Foreign Nationals (IHFN)	2	2	2	332					332	332	332	\$166,000	\$166,000	\$166,000	0.0%	0.0%
Subtotal - Direct Funded (excludes OC 13)	19,927	19,949	19,949	2,367,894	-	-	-	-	2,367,894	723,652	3,091,546	\$118,697	\$118,697	\$154,972	0.0%	30.6%
D5. Other Object Class 13 Benefits																
D5a. USDH - Benefits for Former Employees																
D5b. DHFN - Benefits for Former Employees																
D5c. Voluntary Separation Incentive Pay (VSIP)																
D5d. Foreign National Separation Liability Accrual																
Reimbursable Funded Personnel (includes OC 13)	4,007	4,591	4,591	565,802	0	0	0	0	565,802	0	565,802	\$123,242	\$123,242	\$123,242	0.0%	0.0%
R1. US Direct Hire (USDH)	4,007	4,591	4,591	565,802	-	-	-	-	565,802	-	565,802	\$123,242	\$123,242	\$123,242	0.0%	0.0%
R1a. Senior Executive Schedule	-	-	-	-					-	-	-	-	-	-	-	-
R1b. General Schedule	4,007	4,591	4,591	565,802					565,802		565,802	\$123,242	\$123,242	\$123,242	0.0%	0.0%
R1c. Special Schedule	-	-	-	-					-	-	-	-	-	-	-	-
R1d. Wage System	-	-	-	-					-	-	-	-	-	-	-	-
R1e. Highly Qualified Experts	-	-	-	-					-	-	-	-	-	-	-	-
R1f. Other	-	-	-	-					-	-	-	-	-	-	-	-
R2. Direct Hire Program Foreign Nationals (DHFN)	-	-	-	-					-	-	-	-	-	-	-	-
R3. Total Direct Hire	4,007	4,591	4,591	565,802	-	-	-	-	565,802	-	565,802	\$123,242	\$123,242	\$123,242	0.0%	0.0%
R4. Indirect Hire Foreign Nationals (IHFN)	-	-	-	-					-	-	-	-	-	-	-	-
Subtotal - Reimbursable Funded (excludes OC 13)	4,007	4,591	4,591	565,802	-	-	-	-	565,802	-	565,802	\$123,242	\$123,242	\$123,242	0.0%	0.0%
R5. Other Object Class 13 Benefits																
R5a. USDH - Benefits for Former Employees																
R5b. DHFN - Benefits for Former Employees																
R5c. Voluntary Separation Incentive Pay (VSIP)																
R5d. Foreign National Separation Liability Accrual																
Total Personnel (includes OC 13)	23,934	24,540	24,540	2,933,696	0	0	0	0	2,933,696	723,652	3,657,348	\$119,548	\$119,548	\$149,036	0.0%	24.7%
T1. US Direct Hire (USDH)	23,932	24,538	24,538	2,933,364	-	-	-	-	2,933,364	723,652	3,657,016	\$119,544	\$119,544	\$149,035	0.0%	24.7%
T1a. Senior Executive Schedule	75	75	75	13,500	0	0	0	0	13,500	4,860	18,360	\$180,000	\$180,000	\$244,800	0.0%	36.0%
T1b. General Schedule	20,601	21,207	21,207	2,672,408	0	0	0	0	2,672,408	629,708	3,302,116	\$126,015	\$126,015	\$153,709	0.0%	23.6%
T1c. Special Schedule	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1d. Wage System	3,256	3,256	3,256	247,456	0	0	0	0	247,456	89,084	336,540	\$76,000	\$76,000	\$103,360	0.0%	36.0%
T1e. Highly Qualified Experts	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1f. Other	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T2. Direct Hire Program Foreign Nationals (DHFN)	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T3. Total Direct Hire	23,932	24,538	24,538	2,933,364	-	-	-	-	2,933,364	723,652	3,657,016	\$119,544	\$119,544	\$149,035	0.0%	24.7%
T4. Indirect Hire Foreign Nationals (IHFN)	2	2	2	332	0	0	0	0	332	332	332	\$166,000	\$166,000	\$166,000	0.0%	0.0%
Subtotal - Total Funded (excludes OC 13)	23,934	24,540	24,540	2,933,696	-	-	-	-	2,933,696	723,652	3,657,348	\$119,548	\$119,548	\$149,036	0.0%	24.7%
T5. Other Object Class 13 Benefits																
T5a. USDH - Benefits for Former Employees																
T5b. DHFN - Benefits for Former Employees																
T5c. Voluntary Separation Incentive Pay (VSIP)																
T5d. Foreign National Separation Liability Accrual																

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Department of the Air Force TOTAL CIVILIAN PERSONNEL COSTS OP-8B: OP-8 (PB) FY 2026 President's Budget Submission (FY 2026)																
	(\$ in Thousands)											Rates				
	a	b	c	d	e	f	g	e + f + g	d + h	i	i + j	d/c	i/c	k/c	h/d	j/d
	Begin	End	FTEs	Basic	Overtime	Holiday	Other	Total	Comp	Benefits	Comp	Basic	Total	Comp	% BC	% BC
	Strength	Strength	FTEs	Comp	Pav	Pav	O.C.11	Variables	O.C.11	O.C.12/13	& Benefits	Comp	Comp	& Benefits	Variables	Benefits
Direct Funded Personnel (includes OC 13)	19,949	17,503	17,503	2,272,636	0	0	0	0	2,272,636	775,242	3,047,878	\$129,843	\$129,843	\$174,135	0.0%	34.1%
D1. US Direct Hire (USDH)	19,947	17,501	17,501	2,272,297	-	-	-	-	2,272,297	775,242	3,047,539	\$129,838	\$129,838	\$174,135	0.0%	34.1%
D1a. Senior Executive Schedule	75	75	75	18,750	-	-	-	-	18,750	4,588	23,338	\$250,000	\$250,000	\$311,173	0.0%	24.5%
D1b. General Schedule	16,616	14,437	14,437	1,973,531	-	-	-	-	1,973,531	678,894	2,652,425	\$136,700	\$136,700	\$183,724	0.0%	34.4%
D1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1d. Wage System	3,256	2,989	2,989	280,016	-	-	-	-	280,016	91,760	371,776	\$93,682	\$93,682	\$124,381	0.0%	32.8%
D1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1f. Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2. Direct Hire Program Foreign Nationals (DHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D3. Total Direct Hire	19,947	17,501	17,501	2,272,297	-	-	-	-	2,272,297	775,242	3,047,539	\$129,838	\$129,838	\$174,135	0.0%	34.1%
D4. Indirect Hire Foreign Nationals (IHFN)	2	2	2	339	-	-	-	-	339	-	339	\$169,500	\$169,500	\$169,500	0.0%	0.0%
Subtotal - Direct Funded (excludes OC 13)	19,949	17,503	17,503	2,272,636	-	-	-	-	2,272,636	775,242	3,047,878	\$129,843	\$129,843	\$174,135	0.0%	34.1%
D5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5c. Voluntary Separation Incentive Pay (VSIP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5d. Foreign National Separation Liability Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reimbursable Funded Personnel (includes OC 13)	4,591	5,082	5,082	577,439	0	0	0	0	577,439	0	577,439	\$113,624	\$113,624	\$113,624	0.0%	0.0%
R1. US Direct Hire (USDH)	4,591	5,082	5,082	577,439	-	-	-	-	577,439	-	577,439	\$113,624	\$113,624	\$113,624	0.0%	0.0%
R1a. Senior Executive Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1b. General Schedule	4,591	5,082	5,067	576,089	-	-	-	-	576,089	-	576,089	\$113,694	\$113,694	\$113,694	0.0%	0.0%
R1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1d. Wage System	-	-	15	1,350	-	-	-	-	1,350	-	1,350	\$90,000	\$90,000	\$90,000	0.0%	0.0%
R1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1f. Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R2. Direct Hire Program Foreign Nationals (DHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R3. Total Direct Hire	4,591	5,082	5,082	577,439	-	-	-	-	577,439	-	577,439	\$113,624	\$113,624	\$113,624	0.0%	0.0%
R4. Indirect Hire Foreign Nationals (IHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal - Reimbursable Funded (excludes OC 13)	4,591	5,082	5,082	577,439	-	-	-	-	577,439	-	577,439	\$113,624	\$113,624	\$113,624	0.0%	0.0%
R5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5c. Voluntary Separation Incentive Pay (VSIP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5d. Foreign National Separation Liability Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Personnel (includes OC 13)	24,540	22,585	22,585	2,850,075	0	0	0	0	2,850,075	775,242	3,625,317	\$126,193	\$126,193	\$160,519	0.0%	27.2%
T1. US Direct Hire (USDH)	24,538	22,583	22,583	2,849,736	-	-	-	-	2,849,736	775,242	3,624,978	\$126,189	\$126,189	\$160,518	0.0%	27.2%
T1a. Senior Executive Schedule	75	75	75	18,750	0	0	0	0	18,750	4,588	23,338	\$250,000	\$250,000	\$311,173	0.0%	24.5%
T1b. General Schedule	21,207	19,519	19,504	2,549,620	0	0	0	0	2,549,620	678,894	3,228,514	\$130,723	\$130,723	\$165,531	0.0%	26.6%
T1c. Special Schedule	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1d. Wage System	3,256	2,989	3,004	281,366	0	0	0	0	281,366	91,760	373,126	\$93,664	\$93,664	\$124,210	0.0%	32.6%
T1e. Highly Qualified Experts	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1f. Other	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T2. Direct Hire Program Foreign Nationals (DHFN)	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T3. Total Direct Hire	24,538	22,583	22,583	2,849,736	-	-	-	-	2,849,736	775,242	3,624,978	\$126,189	\$126,189	\$160,518	0.0%	27.2%
T4. Indirect Hire Foreign Nationals (IHFN)	2	2	2	339	0	0	0	0	339	0	339	\$169,500	\$169,500	\$169,500	0.0%	0.0%
Subtotal - Total Funded (excludes OC 13)	24,540	22,585	22,585	2,850,075	-	-	-	-	2,850,075	775,242	3,625,317	\$126,193	\$126,193	\$160,519	0.0%	27.2%
T5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0
T5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0
T5c. Voluntary Separation Incentive Pay (VSIP)	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0
T5d. Foreign National Separation Liability Accrual	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0

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*All figures in this exhibit are for the FY 2026 discretionary appropriations
President's Budget request unless otherwise noted.*

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ACRONYMS

GENERAL ACRONYMS

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

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

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

BASE / ORGANIZATIONAL ACRONYMS

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

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

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CONTRACT METHOD / TYPE ACRONYMS

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

CONTRACTED BY ACRONYMS

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

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

IDENTIFICATION CODES

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603260F <i>I Intelligence Advanced Development</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	6.977	3.820	3.901	0.000	3.901	-	-	-	-	-	-
64536A: <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	0.000	3.557	2.500	2.553	0.000	2.553	-	-	-	-	-	-
64537A: <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>	0.000	3.420	1.320	1.348	0.000	1.348	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Intelligence Advanced Development (IAD) develops and demonstrates technology required to support warfighter needs for timely, all-source intelligence information. IAD supports global awareness, consistent battlespace knowledge, and the execution of time-critical missions. IAD focuses on enhancing defense intelligence capabilities through exploration and development of innovative tools including data analytics for mining and exploitation, machine-learning, and software automation.

In FY 2026, IAD provides improved on-time information to the warfighter using new and existing data sources, streamlining data analysis; thereby reducing the footprint required; and enhancing performance.

IAD requirements reflect specific warfighter and intelligence organization deficiencies at the tactical and operational levels as identified and prioritized by Air Combat Command (ACC). The Air Force Research Lab, Rome Research Site, Information Intelligence Systems and Analysis Division (AFRL/RIE), then works directly with users to meet the requirements, employing evolutionary approaches and integrating finished modules directly into the field. This PE expedites technology transition from the laboratory to operational users via rapid prototyping. IAD may also reallocate existing resources to support out-of-cycle new/updated warfighter requirements.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.226M was expended for civilian pay expenses in this program element, and in FY 2025 \$0.142M is forecasted for civilian pay expenses in this program element.

This PE received \$740K Ukraine Supplemental Funds in FY 2024.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0603260F I Intelligence Advanced Development			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	6.237	3.820	3.914	0.000	3.914
Current President's Budget	6.977	3.820	3.901	0.000	3.901
Total Adjustments	0.740	0.000	-0.013	0.000	-0.013
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.740	0.000	-0.013	0.000	-0.013

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development				Project (Number/Name) 64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
64536A: INTELLIGENCE EXPLOITATION TOOLS (IET)	0.000	3.557	2.500	2.553	0.000	2.553	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The mission is to develop prototypes which encompass several areas of intelligence exploitation including the advancement of all source correlation and fusion for the intelligence analyst. Projects include development of innovative data analytics, machine-learning, and automated software tools. The intent is to enhance the overall situational awareness for Air Force, DoD, and Coalition groups which have requirements to correlate various sources of intelligence information, including Communications Intelligence (COMINT), Electronics Intelligence (ELINT), Imagery Intelligence (IMINT), Geospatial Intelligence (GEOINT), Measurement and Signature Intelligence (MASINT), Signals Intelligence (SIGINT), Publicly Available Information (PAI) and others, in a timely manner. IET may reallocate existing resources to support out-of-cycle new/updated warfighter requirements.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Intelligence Exploitation Tools (IET)									3.557	2.500	2.553	
Description: IET addresses the accurate and timely interpretation of various Intelligence data sources (such as digital imagery, video, documents, signals) by developing and evaluating methods to index, exploit, and manipulate disparate data products using analytics, machine-learning, and software automation. This provides the analyst with the ability to rapidly search and fuse multiple intelligence sources for improved situational awareness and to better detect anomalies. Cross domain tools enable data exploitation at multiple classification levels. In addition, methods to improve analysis of current and future foreign weapon systems are developed. IET provides enhanced warning and accuracy to allow national and military authorities a greater range of options to avert, diminish or control a crisis.												
FY 2025 Plans:												
- Continue the development and demonstration of the knowledge representation and reasoning tools for intelligent systems to gain ability to solve complex tasks associated with Audio/Video (A/V) data clustering/filtering using semantic embedding techniques												
- Continue the development and demonstration of the prediction of aircraft trajectory and behavior w/out real-time positioning information while assessing future behavior based on complex models derived from training data												
- Initiate threat airborne radar supporting predictive analysis, hardware-in-the-loop testing, and Electronic Warfare (EW) programmability												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64536A / <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
- Initiate Over-the-Horizon (OTH) tracks of adversary air/land/maritime assets to DAF Family of Systems aircraft <i>FY 2026 Plans:</i> - Will complete the development and demonstration of the knowledge representation and reasoning tools for intelligent systems to gain ability to solve complex tasks associated with A/V data clustering/filtering using semantic embedding techniques - Will complete the development and demonstration of the prediction of aircraft trajectory and behavior without real-time positioning information while assessing future behavior based on complex models derived from training data - Will continue threat airborne radar supporting predictive analysis, hardware-in-the-loop testing, and EW programmability - Will complete OTH tracks of adversary air/land/maritime assets to DAF Family of Systems aircraft <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding increased due to accounting for inflation.			
Accomplishments/Planned Programs Subtotals		3.557	2.500
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
Requirements for new/improved techniques for operational employment of simulation models are identified and prioritized by ACC. Development of the new/improved capabilities to meet these requirements is managed by Air Force Research Laboratory (AFRL) Rome Research Site. Prototype products (usually software), once evaluated by the users, are transitioned from the laboratory to the operational community in spirals. All major contracts within this project are awarded after full and open competition.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development				Project (Number/Name) 64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Intelligence Exploitation Tools (IET)	Various	Various : Various	-	3.260	Dec 2023	2.400	Dec 2024	2.449	Dec 2025	-		2.449	-	-	-
Subtotal			-	3.260		2.400		2.449		-		2.449	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	AFRL - Information Directorate : Rome, NY	-	0.297	Nov 2023	0.100	Nov 2024	0.104	Nov 2025	-		0.104	-	-	-
Subtotal			-	0.297		0.100		0.104		-		0.104	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	3.557		2.500		2.553		-		2.553	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025																			
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Deve lopment										Project (Number/Name) 64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
IET																												
Audio/video exploitation enhancements																												
Air traffic behavior prediction																												
Multi-Source Fusion																												
AI Integration w/DMX																												
Threat Airborne Radar																												
Over-the-Horizon (OTH) Tracking																												
FY26 IET Development, Evaluation & Prototype Release																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development	Project (Number/Name) 64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
IET				
Audio/video exploitation enhancements	1	2024	4	2026
Air traffic behavior prediction	1	2024	4	2026
Multi-Source Fusion	1	2024	4	2024
AI Integration w/DMX	1	2024	4	2024
Threat Airborne Radar	1	2025	4	2027
Over-the-Horizon (OTH) Tracking	1	2025	4	2026
FY26 IET Development, Evaluation & Prototype Release	1	2026	1	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development				Project (Number/Name) 64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
64537A: INTELLIGENCE ANALYSIS CAPABILITIES (IAC)	0.000	3.420	1.320	1.348	0.000	1.348	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The mission is to provide continuing development and upgrades of threat analysis capabilities to produce integrated, predictive air and space intelligence to enable military operations, force modernization decisions, and policy making. Products from IAC allow the Intelligence Analyst to accelerate and increase the accuracy of threat estimates and system descriptions to deployed operational forces. Each of the development projects within the IAC program portfolio transition technologies to the operational communities through the incremental release of upgraded versions over a period of years as development projects progress towards the final configuration. IAC may reallocate existing resources to support out-of-cycle new/ updated warfighter requirements.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Intelligence Analysis Capabilities (IAC) Development	3.420	1.320	1.348
Description: IAC develops tools and algorithms for Intelligence Analysts with the ability to produce accurate, predictive, relevant, and timely intelligence that supports client processes, operational planning, and mission execution. Methods include data analytics techniques, machine-learning, and software automation. IAC develops new and upgraded analysis, modeling and simulation tools focused on intelligence production supporting AF operational and developmental all source analysis functions.			
FY 2025 Plans: - Complete development of analysis of geospatial features for Distributed Common Ground System making AI/ML models, datasets, predictions geospatially discoverable - Complete object detection algorithms within AI collaboration environment and enabling models on ground and aerial-based software platforms - Complete development of National Air and Space Intelligence Center Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance intel database with graphical visualization, discovery, and editing capabilities, to facilitate volume, quality, and timeliness of C4ISR support - Complete Geospatial Reasoning Situational Awareness Tool that provides capability to tailor a user-defined operating picture with activity assessment monitoring			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / <i>Intelligence Advanced Development</i>	Project (Number/Name) 64537A / <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>		
B. Accomplishments/Planned Programs (\$ in Millions) - Initiate a unified targeting and operational predictive intelligence application to predict adversarial threats <i>FY 2026 Plans:</i> - Will continue a unified targeting and operational predictive intelligence application to predict adversarial threats - Will initiate cloud enablement of electronic warfare integrated reprogramming database (EWIRDB) to improve dissemination of capability <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Minimal funding increased due to inflation.		FY 2024	FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals		3.420	1.320	1.348
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy Requirements of new/upgraded intelligence analysis tools are identified and prioritized by the ACC. Development of capabilities to meet these requirements is managed by AFRL Rome Research Site. Prototype products (usually software), once evaluated by the users, are fielded in incremental capability spirals. All major contracts within this project are awarded after full and open competition.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development					Project (Number/Name) 64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)				
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
IAC	Various	Various : Various	-	3.290	Dec 2023	1.275	Dec 2024	1.300	Dec 2025	-		1.300	-	-	-
Subtotal			-	3.290		1.275		1.300		-		1.300	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	AFRL - Information Directorate : Rome, NY	-	0.130	Nov 2023	0.045	Nov 2024	0.048	Nov 2025	-		0.048	-	-	-
Subtotal			-	0.130		0.045		0.048		-		0.048	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	3.420		1.320		1.348		-		1.348	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development									
										Project (Number/Name) 64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
IAC																												
Geospatial Reasoning Tool																												
Tools to make AI/ML models, datasets, and predictions geospatially discoverable																												
RedForce-compatible obj detection																												
C4ISR intel database w/advanced capabilities																												
Targeting and Predictive Intelligence																												
Cloud Enablement of Electronic Warfare Reprogramming Database																												
FY26 IAC Development, Evaluation & Prototype Release																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Development	Project (Number/Name) 64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
IAC				
Geospatial Reasoning Tool	1	2024	1	2025
Tools to make AI/ML models, datasets, and predictions geospatially discoverable	1	2024	4	2025
RedForce-compatible obj detection	1	2024	4	2025
C4ISR intel database w/advanced capabilities	1	2024	4	2025
Targeting and Predictive Intelligence	1	2025	4	2027
Cloud Enablement of Electronic Warfare Reprogramming Database	1	2026	4	2027
FY26 IAC Development, Evaluation & Prototype Release	1	2026	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0603742F <i>I Combat Identification Technology</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	15.922	16.790	25.172	0.000	25.172	-	-	-	-	-	-
642597: <i>Noncooperative Identification Subsystems</i>	0.000	13.189	14.866	22.307	0.000	22.307	-	-	-	-	-	-
642599: <i>Cooperative Identification Techniques</i>	0.000	0.076	0.081	0.084	0.000	0.084	-	-	-	-	-	-
643420: <i>Combat ID Database Development</i>	0.000	2.657	1.843	2.781	0.000	2.781	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Combat Identification (CID) is the process of characterizing threat and non-threat entities in the battlespace. First and foremost, CID is a critical link in the kill chain; positive ID is a required step in every target engagement, whether short range (visual CID) to very long-range (long-range CID provided by off-board sensors, on-board sensors, or a combination of both). CID capability also provides battlespace commanders and aircrew with other options: threat avoidance, monitoring, hand-off to another C2 node or shooter, etc. The Combat Identification program's mission is to advance CID technologies across the Air Force battlespace by identifying new and maturing technologies, evaluating their application/usefulness, conducting operationally relevant demonstrations, and coordinating strategies that expedite transition aligned to Air Force priority mission threads. Activities also include advanced development, studies, and analysis to support current program planning/execution and future program planning. CID products generated in this PE are proliferated to the multiple services (Army, Air Force, Navy, MDA) where services/platforms rely on these technologies to maintain military superiority with state-of-the-art capabilities.

This program element focuses on the development, integration and transitioning of new capabilities into fielded aircraft (tactical and strategic), unmanned platforms, weapons, and any system that enables Air Force CID in a battlespace. The objective consists of advancing capability in three areas: Non-cooperative CID, Cooperative CID, and CID database development.

This program element is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

Non-cooperative CID technologies (algorithms, software application, hardware application) are the predominate means for advancing CID in denied environments and do not depend on a response from the targeted platform. These technologies make up the majority of this PE's products.

Cooperative CID technologies assessed under this program element include preliminary studies of next generation systems that could be employed between two non-threat, participating platforms.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0603742F I Combat Identification Technology				
CID database initiates development (for new technologies) or continues advancement of existing databases with new (or upgraded) target representations. CID databases are used by all combat and ISR platforms to enable CID technologies to perform correctly.						
This program element may include necessary civilian pay expenses required to manage, execute, and deliver CID capability.						
The use of program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. "In FY 2025 \$0.0 million was expended for civilian pay expenses in this program element, and in FY 2026 \$0.0 million is forecast for civilian pay expenses in this program element."						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		21.298	24.799	25.381	0.000	25.381
Current President's Budget		15.922	16.790	25.172	0.000	25.172
Total Adjustments		-5.376	-8.009	-0.209	0.000	-0.209
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-5.376	-8.009			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-0.209	0.000	-0.209
Change Summary Explanation						
FY 2025 budget request was reduced by 8.009 million for "unjustified growth." Funding was for noncooperative identification subsystems and air target identification efforts.						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology				Project (Number/Name) 642597 / Noncooperative Identification Subsystems			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
642597: Noncooperative Identification Subsystems	0.000	13.189	14.866	22.307	0.000	22.307	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Non-cooperative combat identification (CID) employs multiple sensing technologies and signal processing techniques designed to extract discriminating features from a battlespace entity (target). Specifically designed algorithms compare those extracted features to a tailored database to identify those targets. This is the primary method for advanced CID development and the key enabler for aiding Air Force kill-chains in denied access environments. These technologies include: (A) non-cooperative Air Target Identification (ATID) technologies, (B) non-cooperative Ground Target Identification (GTID) technologies, and (C) Studies evaluating potential new technologies.

ATID development focuses on platform-centric CID technologies that enhance capability to determine enemy air threats. A primary area of focus is the development/implementation of the government-owned joint standard for CID, Joint Multi-platform Advanced Combat identification (JMAC) architecture shared/implemented by Army, Air Force, Navy, and MDA; it fuses multiple sensors to provide a robust, advanced CID solution aimed at the discovery/generation of CID features from fielded sensors. JMAC is one of three key technologies in the Missile Defense Agency's Joint Tactical Integrated Fire Control (JTIFC) Architecture, as such it is being adopted by Golden Dome. Other areas of focus include combat identification technologies that broaden the application of CID across air platforms utilizing larger air-to-air kill-webs planned for employment by the Air Force and utilize assets in unmanned aerial systems and space to improve and enable CID in future threat air engagements.

GTID development focuses on platform-centric CID technologies that enhance capability to determine priority enemy ground threat systems (both offensive and defensive systems). Primary areas of focus include transitioning CID capability for denied access environments using passive radio frequency and electronic warfare information, integrating radio-based technologies into the cockpit to increase confidence of target identification and situational awareness as well as reduce fratricides, and to demonstrate weapon-based combat identification back to the launch platform using a communication link from that launched weapon. GTID also advances technology to address efficiency and sustainability issues associated with the development, operation and maintenance of non-cooperative monostatic and bi-static synthetic aperture radar aided target recognition algorithms and databases. Other areas of focus include combat identification technologies that broaden the application of CID across air platforms utilizing larger air-to-ground kill-webs planned for employment by the Air Force and utilize assets in unmanned aerial systems and space to improve and enable CID in future threat ground engagements.

The Studies area discovers novel technologies that are ready to become transition-able projects and includes activities to develop a robust ability to quantitatively evaluate promising combat identification technologies using enhanced modeling and simulation capabilities, database generation, and database enhancement/employment (machine learning, deep learning, and artificial intelligence) to employ CID technologies in an operationally useful manner. The Studies effort also performs early assessments of promising technologies through Concept Calls to determine if the program should incorporate them as a formal project within the CID portfolio.

Activities also include studies and analysis to support both current program planning and execution, as well as future program planning.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology	Project (Number/Name) 642597 / Noncooperative Identification Subsystems		
This program element may include necessary civilian pay expenses required to manage, execute, and deliver Combat Identification capability. The use of programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Studies		-	0.840	2.103
Description: The studies effort serves to analyze all aspects of Air Target Identification (ATID) and Ground Target Identification (GTID) projects to mature combat identification (CID) technologies within the CID investment strategy. This effort covers Technology Readiness Level (TRL) 4 efforts which are funded through CID concept call. Areas include but are not limited to automatic target recognition, denied area access CID, CID sensor feature extraction, CID database use optimization, rapid database creation/employment for CID, synthetic data, CID focused training, off-board sensor feature employment, on-board sensor feature employment, CID feature fusion, and United States Air Force CID architecture enhancements.				
FY 2025 Plans: -Continue developing/advancing modeling, simulation and analysis of CID capabilities/technologies for technology operational evaluation. -Continue studies initiated for machine learning and synthetic/real data operational use in employed CID sensor systems. -Implement maturation and demonstration of selected technology concepts from Concept Call. -Continue planning demonstrations for concepts in relevant operational environments. -Plan transition of completed technology concepts to ongoing programs or back to development for further maturation. -Implement mission engineering analysis for CID effectiveness using previously developed internal and external tools from prior studies.				
FY 2026 Plans: -Plan to continue conduct of concept call to identify and evaluate CID technologies that advance current capability. -Evaluate modeling, simulation, and analysis of new and ongoing CID technology development. -Continue machine learning and synthetic/real data operational use; initiate targeted use of artificial intelligence (AI) within CID algorithms. -Continue planning demonstrations in relevant operational environment for study demonstrations. -Continue development of a technical roadmap for CID Technologies to inform future studies. -Continue mission engineering studies to inform CID architecture for plans and requirements.				
FY 2025 to FY 2026 Increase/Decrease Statement:				

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>	Project (Number/Name) 642597 / <i>Noncooperative Identification Subsystems</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
FY 2026 increased compared to FY 2025 by \$1.263 million due to a reemphasis on newer algorithms for both air targets and ground targets to match warfighting mission thread priorities.			FY 2026
Title: Air Target Identification Description: The Air Target Identification (ATID) technologies discover, mature and integrate features collected from any battlespace sensor into individual platforms and into the Joint Multi-platform Advanced Combat Identification (JMAC) air target data-fusion architecture and transition the mode to tactical aircraft and designated ISR platforms (e.g. E-3). Air Target Identification efforts include: (1) ATID Algorithm development, developing methods to extract and exploit features from fielded sensors to provide data to Joint Multi-platform Advanced Combat Identification; (2) ATID Integration for combat platforms, multiple 4th Gen air dominance demonstrations of JMAC algorithms as risk reduction for all future JMAC instantiations and expansion of advancing CID capability for future priority mission threads. FY 2025 Plans: -Continue maturation of sensor feature extraction algorithms. -Continue maturation and effectiveness testing of the Joint Multiplatform Advanced Combat Identification (JMAC) algorithms on both F-16 and F-15, algorithm optimization on 4th generation air dominance platforms through software and hardware laboratory testing. -Continue feature extraction use and database incorporation of extracted features. -Continue flight demonstration and data analysis of feature extraction algorithms. Initiate JMAC integration planning on 5th generation air dominance platforms. -Continue planning for integration of off-board CID data (into JMAC) from ISR platforms, weapons platforms, unmanned aerial platforms, and space assets. FY 2026 Plans: -Continue maturation of air target sensor feature extraction algorithms for implementation with the JMAC CID framework. -Complete maturation and effectiveness testing of the JMAC air target algorithms on both F-16 and F-15. -Expand sensor feature extraction implementation for advancing CID on future platform sensors and incorporation of those extracted features into developing databases. -Continue flight demonstration and data analysis of feature extraction algorithms. -Advance JMAC air target integration planning for 5th generation air dominance platforms based on planned platform sensor improvements. -Initiate JMAC integration efforts on Air Force Command and Control (C2) Platforms.		7.973	7.445
			11.700

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>	Project (Number/Name) 642597 / <i>Noncooperative Identification Subsystems</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
-Initiate studies for integration of off-board CID data (into JMAC) from ISR platforms, weapons platforms, unmanned aerial platforms, and space assets in support of Air Force long range kill chains. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increased compared to FY 2025 by \$4.255 million due to an increased emphasis in advanced CID technologies for 5th generation fighters and planned increase for algorithm development for command and control (C2) sensors/platforms aligning to warfighting priority mission threads.			
Title: Ground Target Identification Description: Ground Target Identification (GTID) technologies discover, mature, and integrate ground entity features and algorithms into weapons-controlling combat air platforms employing deadly force against time-critical and other priority targets. GTID efforts consist of (1) GTID Algorithm development, effective, affordable implementation of machine learning, artificial intelligence, and deep learning for tailored algorithms for synthetic aperture radar (SAR) automatic target recognition (ATR). (2) GTID Algorithm development for the use of synthetic databases to enhance SAR ATR use, training, and expansion across combat platforms. (3) GTID Integration for combat platforms, Passive Radio-frequency IDentification Environment (PRIDE), an effort to develop a bistatic synthetic aperture radar (SAR) automatic target recognition (ATR) capability useful in a denied access environment; (4) GTID Integration for combat platforms, Radio Identification (RID), an effort to develop low-band ground/air emitter ID to improve aircrew situational awareness and enable targeting of these low-band threat systems; and (5) GTID Integration for combat platforms, Kill-chain Weapon Integrated CID (KWIC), an effort that will use information from launched weapons through a communication link to provide CID from within the hot (target area) battlespace. (6) GTID Algorithm development Exploration of sensor feature extraction for use within the Joint Multi-platform Advanced Combat Identification (JMAC) architecture. FY 2025 Plans: -Continue algorithm development furthering fusion studies with machine learning and template-based approaches for enhanced ATR in denied environments. -Incorporate prior technology development toward identification of enemy targets in an actively denied ground environment (camouflage, concealment, denial and decoy conditions) looking at sensor modes and sensor fusion to provide technical solutions to this critical challenge. -Continue PRIDE efforts by completing Phase 2 efforts with an offline demonstration and ramping up for Phase 3. -Complete air to ground synthetic generation effort transition to Air to Ground analysis organizations by finalizing algorithms and database use optimization. -Continue integration of KWIC into program of record with potential for application to other weapon systems. -Continue planning for on-board/off-board sensor employment to support Air-to-Ground JMAC and non-JMAC instantiations of CID on assets within Air Force planned kill-web to include both unmanned and space assets. -Initiate ground components of JMAC architecture activity.		5.216	6.581
			8.504

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>	Project (Number/Name) 642597 / <i>Noncooperative Identification Subsystems</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
-Complete RID activity by transitioning technology to 5th gen fighter platform. <i>FY 2026 Plans:</i> -Continue algorithm development for efforts toward identification of enemy targets in an actively denied ground environment (camouflage, concealment, denial and decoy conditions). -Continue PRIDE efforts with Phase 3 to demonstrate integrated capabilities. -Continue integration of Kill-chain Weapon Integrated CID into program of record with potential for application to other weapon systems. -Continue efforts for on-board/off-board sensor employment to support Air-to-Ground JMAC and non-JMAC instantiations of CID on assets within Air Force planned kill-web to include multi-domain assets, demonstration of concepts. -Continue air-to-ground sensor feature extraction algorithm necessary for incorporation into Air-to-Ground JMAC algorithm architecture. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 increased compared to FY 2025 by \$1.923 million due to increased emphasis on algorithm initiation/development of integrating/demonstrating air-to-ground CID technologies on next generation platforms, atypical platforms (UAVs, weapons) and initiation of Air-to-Ground JMAC implementation for future warfighting mission threads.			
Accomplishments/Planned Programs Subtotals		13.189	14.866
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
Combat Identification develops technologies for exploitation by the United States Air Force (USAF) and other services. Award multiple, competitive contract vehicles emphasizing the use of government owned technologies, government off-the-shelf technology (GOTS), commercial off-the-shelf (COTS), and maximize the use of non-developmental items (NDIs). Management develops a technology to a point it can be demonstrated in a relevant operational environment.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology				Project (Number/Name) 642597 / Noncooperative Identification Subsystems					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Air Target Identification (ATID) - ID Algorithm / JMAC Features	C/CPFF	Various : Various	-	6.132	Apr 2024	6.175	Dec 2024	6.091	Dec 2025	-		6.091	-	-	-
Air Target Identification (ATID) - Air Platform (F16/ F15/F35/F22) JMAC Integration	C/CPFF	Multiple : Various	-	0.500	Apr 2024	0.870	Jan 2025	2.000	Jan 2026	-		2.000	-	-	-
Air Target Identification (ATID) - Study 1	C/CPFF	Not specified. : TBD	-	0.075	Jan 2024	0.600	Nov 2024	1.103	Nov 2025	-		1.103	-	-	-
Air Target Identification (ATID) - Study 2	C/CPFF	Not specified. : TBD	-	-		0.000	Nov 2024	0.000	Nov 2025	-		0.000	-	-	-
Air Target Identification (ATID) - Study 3	MIPR	Not specified. : TBD	-	0.141	Aug 2024	0.000	Feb 2025	0.000	Feb 2026	-		0.000	-	-	-
Ground Target Identification (GTID) - ID Algorithm / JMAC Features	C/CPFF	Various : Various	-	4.947	Apr 2024	1.656	Dec 2024	5.589	Dec 2025	-		5.589	-	-	-
Ground Target Identification (GTID) - PRIDE	C/CPFF	Multiple : Various	-	-		4.525	Jan 2025	2.400	Jan 2026	-		2.400	-	-	-
Ground Target Identification (GTID) - KWIC	C/CPFF	Multiple : Various	-	-		0.400	Mar 2025	1.000	Feb 2026	-		1.000	-	-	-
Ground target Identification (GTID) - Unmanned	C/CPAF	Multiple : Various	-	-		-		0.500	Apr 2026	-		0.500	-	-	-
Ground Target Identification (GTID) - Study 1	C/CPFF	Not specified. : TBD	-	0.075	Feb 2024	0.240	Mar 2025	1.000	Mar 2026	-		1.000	-	-	-
Ground Target Identification (GTID) - Study 2	C/CPFF	Not specified. : TBD	-	-		0.000	Apr 2025	0.000	Apr 2026	-		0.000	-	-	-
Ground Target Identification (GTID) - Study 3	MIPR	Not specified. : TBD	-	-		-		0.000	Apr 2026	-		0.000	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>						Project (Number/Name) 642597 / <i>Noncooperative Identification Subsystems</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Subtotal			-	11.870		14.466		19.683		-		19.683	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ECID MS&A	C/CPFF	ACC : Langley, AFB, VA	-	0.197		-		-		-		-	-	-	-
ATID/GTID MS&A	Various	Various : Various	-	0.000		0.000		0.500	Apr 2026	-		0.500	-	-	-
ATID/GTID JMAC	C/Various	Various : Various	-	0.000		0.000		0.500	Mar 2026	-		0.500	-	-	-
Subtotal			-	0.197		0.000		1.000		-		1.000	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Data Collection	MIPR	TBD : TBD	-	0.912		0.000		0.806	Mar 2026	-		0.806	-	-	-
Subtotal			-	0.912		0.000		0.806		-		0.806	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
AFRL PMA	Various	Various : Various, OH	-	0.110		0.400		0.818	Apr 2026	-		0.818	-	-	0.000
Management Services	C/CPFF	TBD : TBD	-	0.100		-		-		-		-	-	-	-
Subtotal			-	0.210		0.400		0.818		-		0.818	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>				Project (Number/Name) 642597 / <i>Noncooperative Identification Subsystems</i>				
	Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	13.189		14.866		22.307		-		22.307	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>		Project (Number/Name) 642597 / <i>Noncooperative Identification Subsystems</i>	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Studies																												
ATID Study - eJMAC																												
GTID Study - ePRIDE																												
ATID/GTID Study 1																												
ATID/GTID Study 2																												
Air Target Identification																												
ATID Algorithm																												
ATID Integration - JMPS Demo																												
ATID Integration - FJORD																												
ATID Integration - JMAC15																												
ATID Integration - Next Gen																												
ATID Integration - C2 Platforms																												
Ground Target Identification																												
GTID Algorithm																												
GTID Integration - PRIDE																												
GTID Integration - RID																												
GTID Integration - KWIC																												
GTID Integration - UAVs																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>	Project (Number/Name) 642597 / <i>Noncooperative Identification Subsystems</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Studies</i>				
ATID Study - eJMAC	1	2024	2	2025
GTID Study - ePRIDE	1	2024	2	2025
ATID/GTID Study 1	1	2025	2	2026
ATID/GTID Study 2	3	2025	4	2026
<i>Air Target Identification</i>				
ATID Algorithm	1	2024	4	2030
ATID Integration - JMPS Demo	1	2024	1	2026
ATID Integration - FJORD	1	2024	1	2026
ATID Integration - JMAC15	1	2024	4	2027
ATID Integration - Next Gen	1	2026	4	2029
ATID Integration - C2 Platforms	3	2026	4	2029
<i>Ground Target Identification</i>				
GTID Algorithm	1	2024	4	2029
GTID Integration - PRIDE	1	2024	4	2026
GTID Integration - RID	1	2024	2	2024
GTID Integration - KWIC	1	2025	4	2026
GTID Integration - UAVs	1	2026	3	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>				Project (Number/Name) 642599 / <i>Cooperative Identification Techniques</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
642599: <i>Cooperative Identification Techniques</i>	0.000	0.076	0.081	0.084	0.000	0.084	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Cooperative Combat Identification (CID) investigates technologies required to rapidly identify friendly platforms. The program develops, integrates and evaluates technologies that provide Air Force platforms with a means of positively identifying an air or ground platform as a friendly, via active or passive cooperative identification capabilities. This thrust area includes non-traditional cooperative approaches, as well as initial work on a follow-on cooperative system advancing beyond Identification Friend or Foe (IFF - Mode 5) previously developed and transitioned by this PE. Funding for initial studies related on the next generation IFF (potentially labeled Mode 6) began in FY 2023.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Combat Identification capability. The use of program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Non-Traditional Cooperative / Cooperative Follow-on System	0.076	0.081	0.084
Description: Investigate phenomenology and technologies for cooperative identification of air or surface entities not equipped with an Identification Friend or Foe (IFF) system (Mark XII - Mode 5). Perform studies to identify potential paths forward for a new IFF technology. Establish transition planning for technology into current and/or next generation IFF system. Continue evaluation of technologies necessary to employ operational useful next generation cooperative identification systems in conjunction with current system.			
FY 2025 Plans: - Conduct studies for identifying technologies with potential for non-traditional cooperative ID			
FY 2026 Plans: - Continue studies for identifying technologies with potential for non-traditional cooperative ID			
FY 2025 to FY 2026 Increase/Decrease Statement: Not applicable.			
Accomplishments/Planned Programs Subtotals	0.076	0.081	0.084

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>	Project (Number/Name) 642599 / <i>Cooperative Identification Techniques</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy Combat Identification develops technologies for exploitation by the United States Air Force (USAF) and other services. Award multiple, competitive contract vehicles emphasizing the use of government owned technologies, government off-the-shelf technology (GOTS), commercial off-the-shelf (COTS), and maximize the use of non-developmental items (NDIs). Management develops a technology to a point it can be demonstrated in a relevant operational environment.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology				Project (Number/Name) 642599 / Cooperative Identification Techniques					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Product Development AFRL	C/Various	Not specified. : TBD	-	0.065		0.081		0.071		-		0.071	-	-	-
Subtotal			-	0.065		0.081		0.071		-		0.071	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Office Support	Various	Various : Various	-	0.011		0.000		0.013		-		0.013	-	-	-
Subtotal			-	0.011		0.000		0.013		-		0.013	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.076		0.081		0.084		-		0.084	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology								Project (Number/Name) 642599 / Cooperative Identification Techniques			

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>	Project (Number/Name) 642599 / <i>Cooperative Identification Techniques</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Cooperative Identification Techniques</i>				
Studies	1	2024	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology				Project (Number/Name) 643420 / Combat ID Database Development			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
643420: Combat ID Database Development	0.000	2.657	1.843	2.781	0.000	2.781	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Database thrust area is designed to remove the "hard-coded", static, identification (ID) parameters (typically updated every 4-5 years) from the host platform's sensor(s) and replace them with parameterized values that are more easily and rapidly updated when new intelligence inputs come available. This allows maximum flexibility to tailor each aircraft's Combat Identification (CID) database(s) based on assigned theater of operation, threat country of interest, and assigned mission tasks.

This project primarily consists of four objectives: A) determining a sensor's capability to capture target features for CID, B) designing and developing a database to contain the CID features identified in Objective A, C) developing techniques to generate the requisite features, and D) providing CID features developed from measured or modeled data.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Combat Identification capability. The use of program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Database Development	2.657	1.843	2.781
Description: Develop techniques to remove the "hard-coded", static, ID parameters from the host platform's sensor and replace them with parameterized values that are dynamic.			
FY 2025 Plans: -Continue collecting data to populate the databases for developmental test/debug. -Continue developing techniques to remove the "hard-coded", static, ID parameters from the host platform's sensor and replace them with parameterized values for Joint Multi-platform Advanced Combat Identification (JMAC) architecture. -Implement additional supported sensor modalities into the JMAC database architecture. -Demonstrate database updates (with F-15 as demonstration platform) using developed technology and lay out initial plans for technology transition.			
FY 2026 Plans: -Identify future data collection needs to support future Air Force platform requirements; include as part of the former development efforts.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / <i>Combat Identification Technology</i>	Project (Number/Name) 643420 / <i>Combat ID Database Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions) -Advance techniques that align with intelligence service/platform capability enhancements to continue automation of Combat ID; further refinement of parameterized values for Joint Multi-platform Advanced Combat Identification (JMAC) architecture, identifying additional supported sensor modalities for future incorporation into the JMAC database architecture. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY2026 increases from FY2025 by \$0.938 million due to implementing software modeling on more complex threat systems and implementing advance algorithms on intel simulations.		FY 2024	FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals		2.657	1.843	2.781
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy Combat Identification develops technologies for exploitation by the United States Air Force (USAF) and other services. Implement end product investment in government organizations that will maintain database infrastructures and utilize information to inform combat identification (CID) across all USAF platforms. Use of competitive contract awards and existing contract vehicles emphasizing the use of government owned technologies, government off-the-shelf technology (GOTS), commercial off-the-shelf (COTS), and maximize the use of non-developmental items (NDIs). Management develops a technology to a point it can be demonstrated in a relevant operational environment.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology						Project (Number/Name) 643420 / Combat ID Database Development			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Feature Development	Various	Various : Various	-	1.407		0.990		1.559		-		1.559	-	-	-
Database Development	MIPR	NASIC : WPAFB, OH	-	1.250		0.853		1.222		-		1.222	-	-	-
Subtotal			-	2.657		1.843		2.781		-		2.781	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.657		1.843		2.781		-		2.781	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity										R-1 Program Element (Number/Name)									
3600 / 4										PE 0603742F / Combat Identification Technology									
										Project (Number/Name)									
										643420 / Combat ID Database Development									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Combat ID Database Development																												
Combat ID Feature Development																												
Combat ID Database Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology	Project (Number/Name) 643420 / Combat ID Database Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Combat ID Database Development				
Combat ID Feature Development	1	2024	4	2030
Combat ID Database Development	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0603790F / NATO Research and Development							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	2.208	2.298	4.595	0.000	4.595	-	-	-	-	-	-
64NATO: <i>Nato Coop R&D</i>	0.000	2.208	2.298	4.595	0.000	4.595	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funds are used for air, space, and cyber international cooperative research, and development (ICR&D) agreements with North Atlantic Treaty Organization (NATO) member states, major non-NATO allies and friendly foreign countries. Each of the approved ICR&D projects are required to have a concluded international agreement (IA), prior to funds being released, that implements the provisions of Title 10 U.S. Code, Section 2350a. This legislation (Title 10 U.S. Code, Section 2350a) authorizes funds to significantly improve U.S. and allied conventional defense capabilities by leveraging the best defense technologies, eliminating costly duplication of R&D efforts, accelerating the availability of defense systems, and promoting U.S. and allied interoperability or commonality. These funds will not be used for government civilian salaries, permanent construction, or spent overseas. This program element funds the implementation of DAF ICR&D agreements in (1) Basic Research (2) Applied Research (3) Advanced Technology Development (4) Advanced Component Development and Prototypes (5) System Development and Demonstration and (6) RDT&E Management Support.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	2.208	4.498	4.610	0.000	4.610
Current President's Budget	2.208	2.298	4.595	0.000	4.595
Total Adjustments	0.000	-2.200	-0.015	0.000	-0.015
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	-2.200	-0.015	0.000	-0.015

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: International Cooperative Research and Development	2.208	2.298	4.595

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0603790F / <i>NATO Research and Development</i>							
C. Accomplishments/Planned Programs (\$ in Millions)												
Description: Supports bi- and multi-lateral international agreements that meet DAF RDT&E objectives and goals. Each of the projects receiving NATO R&D funding must meet 2 or more of the following requirements: enhance warfighter capabilities; increase coalition interoperability; accelerate the availability of defense systems; strengthen coalition partnerships; gain access to the best technologies, capabilities, techniques, and/or facilities/test ranges; build or sustain partnerships/influence with strategically important nations; and eliminate duplication of R&D efforts. FY 2025 Plans: Executing ICR&D projects focused on: artificial intelligence; positioning, navigation, and timing; non-chrome engine coating; unmanned aerial vehicles; collision avoidance; counter agile radar; small scalable kinetic weapons; fabrication; 3D printing; mission resilience; wearable sensors; deep space radars, and compact high-power microwave. Bilateral and multilateral cooperative agreements, in the above areas, are with the following countries: Australia, Canada, Denmark, Estonia, Germany, India, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Singapore, South Korea, Sweden, and the United Kingdom. FY 2026 Plans: Continue and initiate new ICR&D projects focused on: quantum, photonic, electromagnetic enabling technology; system performance; materials for extreme environments; collaborative combat aircraft; secure and resilient tactical communications; prediction of weapons effects; green propulsion and power; space-based solar power; radio frequency interference; satellite continuity; corrosion prevention materials; synthetic biology; cognitive modeling; and accelerated combined effects simulation. Bilateral and multilateral ICR&D cooperative agreements, in the above areas, are with the following countries: Australia, France, Germany, India, Israel, Italy, Netherlands, Singapore, Sweden, and the United Kingdom. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increased compared to FY 2025 by \$2.297M due to greater emphasis and support given to developing warfighter capabilities and space-based equipment.										FY 2024	FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals										2.208	2.298	4.595
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 04 0603790F: <i>NATO Research and Development</i>	0.000	0.000	0.000	-	0.000	-	-	-	-	-	-	
Remarks												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0603790F I NATO Research and Development	
E. Acquisition Strategy A principal goal of the NATO Cooperative R&D program is to effectively utilize the resources invested by the U.S. and our allies in air, space, and cyber ICR&D projects. This program element provides the critical funding incentive needed to pursue air, space and cyber related ICR&D agreements and helps to (a) leverage DAF and allied resources through cost sharing and economies of scale; (b) exploit the best US and allied technologies for equipping coalition forces; (c) demonstrate areas of commonality or interoperability with our allies; and (d) accelerate the availability of defense technology and systems. Candidate projects are reviewed against DAF goals, DoD objectives, and warfighter needs prior to being approved. An international agreement defining project objectives, responsibilities, and costs is required prior to release of funds. To obtain these funds and ensure service commitment, projects are selected from existing or new RDT&E programs funded in the Future Years Defense Plan (FYDP). At a minimum, approved NATO Cooperative R&D projects must show that the project office is matching approved funding and allied funding will be equal to the total U.S. funding. Additional funding outside NATO Cooperative R&D program is the responsibility of the project/program office.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force													Date: June 2025		
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603790F / NATO Research and Development				Project (Number/Name) 64NATO / Nato Coop R&D					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
NATO Coop R&D (International Research Projects)	Various	Various : TBD	-	0.808	Mar 2024	0.998	Jan 2025	2.295	Jan 2026	-		2.295	-	-	-
Subtotal			-	0.808		0.998		2.295		-		2.295	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
NATO Coop R&D (International Research Projects)	Various	Various : TBD	-	1.400	Mar 2024	1.300	Jan 2025	2.300	Jan 2026	-		2.300	-	-	-
Subtotal			-	1.400		1.300		2.300		-		2.300	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.208		2.298		4.595		-		4.595	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0603790F / NATO Research and Development		Project (Number/Name) 64NATO / Nato Coop R&D	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
NATO Coop R&D																												
FY 2026 Projects - Call Letter																												
FY 2026 Projects - Initial Project Proposal Review																												
FY 2026 Projects - Technical Planning Discussions and International Agreement development																												
FY 2026 Projects - DAF ICR&D Project Selection Panel																												
FY 2026 Projects - ICR&D Project International Agreement negotiations																												
FY 2026 Projects - ICR&D cooperative project work																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603790F / NATO Research and Development	Project (Number/Name) 64NATO / Nato Coop R&D	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NATO Coop R&D				
FY 2026 Projects - Call Letter	1	2024	1	2024
FY 2026 Projects - Initial Project Proposal Review	3	2024	3	2024
FY 2026 Projects - Technical Planning Discussions and International Agreement development	3	2024	2	2025
FY 2026 Projects - DAF ICR&D Project Selection Panel	4	2024	4	2024
FY 2026 Projects - ICR&D Project International Agreement negotiations	2	2025	4	2025
FY 2026 Projects - ICR&D cooperative project work	4	2025	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	51.948	125.561	90.096	0.000	90.096	-	-	-	-	-	-
641020: <i>ICBM Guidance Applications</i>	0.000	8.711	32.912	25.422	0.000	25.422	-	-	-	-	-	-
641022: <i>ICBM Reentry Vehicle Applications</i>	0.000	21.989	49.402	44.973	0.000	44.973	-	-	-	-	-	-
641024: <i>ICBM Command & Control (C2) Applications</i>	0.000	0.000	25.369	10.563	0.000	10.563	-	-	-	-	-	-
644209: <i>Long Range Planning (LRP)</i>	0.000	21.248	17.878	9.138	0.000	9.138	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Intercontinental Ballistic Missile (ICBM) Demonstration/Validation (Dem/Val) program ensures the development of strategic capabilities in response to United States Strategic Command (USSTRATCOM) Strategic Advisory Group, USSTRATCOM Commander Guidance, and the Defense Science Board Task Force on Nuclear Deterrence.

ICBM Dem/Val provides responsive solutions to address emerging threats and issues through technology insertion and technology application for legacy and future ICBM systems, and other common strategic deterrent mission areas. The ICBM Dem/Val program conducts technology maturation and risk reduction activities for new capabilities to support Minuteman (MM) III sustainment, MM III-to-LGM-35A Sentinel weapon system transition, and future ICBM systems development. ICBM Dem/Val conducts advanced component development and prototyping to validate emerging strategic technologies and future upgrades to the ICBM enterprise. Efforts will identify methods to improve system performance, develop potential future Reentry Vehicle (RV) designs, mitigate evolving threats, reduce life-cycle costs, and develop/expand modeling and simulation. Additionally, ICBM Dem/Val will provide experimental platforms for weapon qualification activities, improving nuclear safety and surety and ensuring both the viability and durability of strategic missile systems.

The ICBM Dem/Val program will develop key enabling engineering tools for the ICBM mission to include Model Based Systems Engineering (MBSE), test software, and modernization of existing analytical tools. This program will leverage modular system, open architecture, and agile software development to build key enabling engineering tools and future upgrades to ICBMs.

The FY 2026 request was reduced by 1.088 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F,

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0603851F I Intercontinental Ballistic Missile - Dem/Val				
0606398F. In FY 2024 0M was expended for civilian pay expenses in this program element, and in FY 2025 0M is forecasted for civilian pay expenses in this program element.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		45.319	119.197	91.584	0.000	91.584
Current President's Budget		51.948	125.561	90.096	0.000	90.096
Total Adjustments		6.629	6.364	-1.488	0.000	-1.488
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-0.405	-27.636			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		10.000	34.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-1.925	0.000			
• SBIR/STTR Transfer		-1.041	0.000			
• Other Adjustments		0.000	0.000	-1.488	0.000	-1.488
Change Summary Explanation						
In FY 2025, budget request was reduced by 27.636M for EFT 2 previously funded (-19.636M) and EFT 3 ahead of need.						
In FY 2026, budget request was reduced by 1.488M for inflation rate adjustment for Non-pay & Non-fuel purchases & Service contract reductions.						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>				Project (Number/Name) 641020 / <i>ICBM Guidance Applications</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
641020: <i>ICBM Guidance Applications</i>	0.000	8.711	32.912	25.422	0.000	25.422	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Guidance Applications Program (GAP) studies and assesses both legacy and future ICBM Guidance System technology applications. Efforts are focused on current and future requirements and technologies, reduced life-cycle costs, and increased nuclear safety and surety. Activities leverage the efforts of the science and technology community and are coordinated with the Navy strategic applications program to enhance synergy and avoid duplication. Key elements include developing responsive technologies with common applications for future strategic guidance capabilities. This program also includes any needed nuclear surety, certification, and system vulnerability assessments.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 0M was expended for civilian pay expenses in this program element, and in FY 2025 0M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Guidance Applications Program	8.711	32.912	25.422
Description: Develop and mature advanced guidance technologies and concepts, including improved inertial measurement units, other sensors, and associated electronics to support future ICBM guidance requirements.			
FY 2025 Plans:			
•Continue development of a micro-electro module system for potential insertion into the future ICBM systems. •Continue Revolutionary Radar research for prototyping and test navigation aids. •Continue radiation-hardened advanced microelectronics to ensure availability of electronics that can provide state-of-the-art performance and survive strategic radiation environments. •Continue evaluating emerging strategic instrument technologies (SPARROW) for future strategic grade gyros and accelerometers to ensure appropriate test capability development, to include gyrometer and nested IMU development. •Begin development of Process Integration and Data Management capability for digitization of physical artifacts (CUI and Classified). (ICBM Digitalization Integration). •Continue Development of Plasma Experimental Ground Antenna System to measure the effects of plasma attenuation			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force								Date: June 2025			
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val				Project (Number/Name) 641020 / ICBM Guidance Applications			
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2024	FY 2025	FY 2026	
•Begin Experimental Flight Test (EFT3) efforts to provide ICBM launches for testing experimental guidance and mission-enabling technologies to support advancement of low-technology readiness level technology maturation. •Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability. FY 2026 Plans: •Continue development of a micro-electro module system for potential insertion into the future ICBM systems. •Begin Optical communications link payload prototype which can operate to provide information at the point of relevance in denied environment and provide low probability of detection and intercept (GNC&PNT) •Continue Revolutionary Radar research for prototyping and test navigation aids. •Continue radiation-hardened advanced microelectronics to ensure availability of electronics that can provide state-of-the-art performance and survive strategic radiation environments. •Continue development of Process Integration and Data Management capability for digitization of physical artifacts (CUI and Classified). (ICBM Digitalization Integration). •Continue Development of Plasma Experimental Ground Antenna System to measure the effects of plasma attenuation •Continue Experimental Flight Test (EFT3) efforts to provide ICBM launches for testing experimental guidance and mission-enabling technologies to support advancement of low-technology readiness level technology maturation. •Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability. FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased overall by \$7.490M, due to a combination of some projects increasing (EFT 3 and Radiation-Hardened Advanced Microelectronics), other projects decreasing in scope (Advanced Fuzing and Sparrow) and project funding requirements ending (PEGASYS).											
Accomplishments/Planned Programs Subtotals								8.711	32.912	25.422	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 05 PE 0605238F: Ground Based Strategic Deterrent EMD	4,327.250	2,011.024	2,647.563	-	2,647.563	-	-	-	-	-	-
Remarks											

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>	Project (Number/Name) 641020 / <i>ICBM Guidance Applications</i>

D. Acquisition Strategy

Accomplish studies, analyses, concept development and engineering; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts and/or other obligating documentation considered most appropriate by obligating and performing agencies involved. Current effort deliverables to include strategic grade guidance prototypes to support multiple ongoing Air Force initiatives.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val				Project (Number/Name) 641020 / ICBM Guidance Applications					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
GAP GNC&PNT	Various	Various : Various	-	-		0.000	Jun 2025	2.000	Feb 2026	-		2.000	-	-	-
GAP Micro-Electronic Module System, Advanced Fuzing	Various	SNL : Various	-	3.100	Nov 2023	3.100	Nov 2024	2.000	Nov 2025	-		2.000	-	-	-
GAP Revolutionary Radar	Various	SNL : Various	-	2.036	Jan 2024	6.000	Oct 2024	5.062	Nov 2025	-		5.062	-	-	-
GAP Radiation-Hardened Advanced Microelectronics	Various	MDA : Various	-	0.915	May 2024	1.734	Apr 2025	6.000	Dec 2025	-		6.000	-	-	-
GAP Emerging Strategic Instrument Technology (Sparrow)	Various	Various : Various	-	1.000	Sep 2024	0.750	Nov 2024	-		-		-	-	-	-
GAP ICBM Digitalization integration	Various	Various : Various	-	0.300	Mar 2025	2.763	Mar 2025	2.000	Oct 2025	-		2.000	-	-	-
GAP Plasma Experiment (PEGASYS)	Various	Various : Various	-	1.360	Jun 2024	3.865	Jan 2025	-		-		-	-	-	-
GAP EFT 3	Various	Various : Various	-	-		-		8.360	Jan 2026	-		8.360	-	-	-
GAP AFGSC Modernization and Enhancement of Mission Capabilities	Various	Various : Various	-	-		14.700	Sep 2025	-		-		-	-	-	-
Subtotal			-	8.711		32.912		25.422		-		25.422	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	8.711		32.912		25.422		-		25.422	-	-	N/A
Remarks															
•Experimental Flight Tests (EFTs) are a vital component of the ICBM development process, and their effective execution necessitates a proactive approach to funding. Specifically, a three-year funding commitment is required prior to the anticipated launch year to adequately support the comprehensive planning and execution activities associated with each test. The EFT program, as a whole, is designed to provide a persistent and readily available capability for conducting experimentation flight tests of innovative ICBM technologies in operationally relevant environments. This standing capability is crucial for validating the performance and reliability of new technologies before they are integrated into operational systems.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val					Project (Number/Name) 641020 / ICBM Guidance Applications			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
GAP																												
GAP GNC&PNT																												
GAP Micro-Electronic Module System, Advanced Fuzing																												
GAP Revolutionary Radar																												
GAP Radiation-Hardened Advanced microelectronics																												
GAP Emerging Strategic Instrument Technology (Sparrow)																												
GAP ICBM Digitalization Integration																												
GAP Plasma Experiment (PEGASYS)																												
GAP EFT 3																												
GAP AFGSC Modernization and Enhancement of Mission Capabilities																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val	Project (Number/Name) 641020 / ICBM Guidance Applications	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
GAP				
GAP GNC&PNT	2	2026	4	2030
GAP Micro-Electronic Module System, Advanced Fuzing	1	2024	4	2030
GAP Revolutionary Radar	2	2024	4	2030
GAP Radiation-Hardened Advanced microelectronics	3	2024	4	2030
GAP Emerging Strategic Instrument Technology (Sparrow)	4	2024	4	2025
GAP ICBM Digitalization Integration	2	2025	2	2027
GAP Plasma Experiment (PEGASYS	3	2024	4	2025
GAP EFT 3	2	2026	3	2028
GAP AFGSC Modernization and Enhancement of Mission Capabilities	4	2025	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val				Project (Number/Name) 641022 / ICBM Reentry Vehicle Applications			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
641022: ICBM Reentry Vehicle Applications	0.000	21.989	49.402	44.973	0.000	44.973	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Reentry Vehicle Applications Program (RVAP) ensures the ICBM force is equipped with the safe, reliable, survivable reentry systems, and explores options for common, multi-mission capabilities. The program enables a responsive engineering infrastructure by developing modeling/simulation and ground/flight test platforms to support reentry system qualifications. The program ensures the availability of long-lead components and materials while identifying life-cycle cost reduction opportunities. In addition, the program matures and tests advanced reentry system technologies and designs to meet future capability requirements. This includes conducting any necessary studies and assessing technology applications relevant to Mk12A, Mk21, Mk21A, and future ICBM reentry systems by maturing technologies and demonstrating/validating concepts and leveraging investments by the science & technology community and Navy reentry systems applications program. Testing may occur on a space-available basis on Air Force and Navy Force Development Evaluation (FDE) flights.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 OM was expended for civilian pay expenses in this program element, and in FY 2025 OM is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Reentry Vehicle Applications Program	21.989	49.402	44.973
Description: Mature, evaluate, and test reentry system materials, technologies, and vehicles including modeling/simulation, and ground and flight test platforms for use in current and future strategic applications.			
FY 2025 Plans: •Begin research and engineering utilizing critical physics-space modeling and simulation to enable red and blue teams to determine outcomes of scenarios. •Begin research and development efforts for a prototype payload, with the objective of designing, constructing and ultimately demonstrating functional prototypes of its constituent components and subsystems. This will involve investigating design options, building preliminary versions of these elements, and testing their performance to validate their feasibility and effectiveness within the larger payload system. •Continue to gain a better understanding of how APL's novel manufacturing, high temperature materials, and testing capabilities can assist the knowledge base and future applications of Thermal Protection Systems.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>	Project (Number/Name) 641022 / <i>ICBM Reentry Vehicle Applications</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
•Begin adversarial AI capability analysis. (CM Highrider) •Continue Experimental Flight Test (EFT2), utilizing Intercontinental Ballistic Missile (ICBM) launches as a platform to evaluate experimental payloads. This flight test aims to facilitate the maturation of key technologies by subjecting them to realistic flight conditions and gathering performance data in a representative environment. The data collected during the flight will be instrumental in refining future payload designs, validating performance models, and ultimately advancing the technological readiness level of these experimental systems. •Continue future system demonstrator effort with the specific aim of creating advanced telemetric equipment designed to perform two critical functions: first, to collect comprehensive data from various components within the system being tested; and second, to transmit this collected data in real-time to receiving stations for analysis and evaluation. The data gathered will be crucial for validating design assumptions, refining system models, and ultimately ensuring the reliability and effectiveness of the system. •Begin research & development, and prototyping of advanced re-entry systems technologies in accordance with Inertial Navigation Technology Maturation, Sensor Fusion for Reentry Systems Technology Maturation, Advanced Fuzing Technology Maturation, Advanced Aeroshell Material Technology Maturation and Reentry Systems Test, Evaluation and Experimentation for potential insertion into the Path Length Module. •Continue radiation-hardened advanced microelectronics to ensure availability of electronics that can provide state-of-the art performance and survive strategic radiation environments. •Begin technical maturation prototyping of a Combined Optical Multiplexing Multi domain Communication and Alternate Precision Navigation Timing (COMMCAP) Terminal leveraging Lightfield Directing Array (LDA) technology. (Common Dispenser) •Begin enabling secure data access across diverse platforms and classified networks by implementing a Zero Trust Architecture (ZTA) to enable secure access to data at multiple classification levels, aiming for an Impact Level (IL) 6 environment. Employ granular access controls based on device, identity, and data labeling, the project flattens networks to unclassified levels while maintaining security, supporting AI development lifecycles •Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability. FY 2026 Plans: •Continue research and engineering utilizing critical physics-space modeling and simulation to enable red and blue teams to determine outcomes of scenarios. (Future Operating Concept) •Begin Terminal Tracking and Scoring. The advanced tracking and scoring system revolutionizes flight testing by precisely monitoring the final descent trajectory of reentry vehicles using cutting-edge laser technology. Designed specifically for terminal phase tracking, this system significantly enhances the capabilities of older, legacy laser tracking systems. It achieves this through the incorporation of several key advancements, including the acquisition and utilization of extremely precise Time-Space-Position Information (TSPI). •Finalize Payload Prototype Development (PPD) study to evaluate AI and characterization.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>	Project (Number/Name) 641022 / <i>ICBM Reentry Vehicle Applications</i>	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
•Continue to gain a better understanding of how APL's novel manufacturing, high temperature materials, and testing capabilities can assist the knowledge base and future applications of Thermal Protection Systems. •Continue adversarial AI capability analysis. (CM Highrider) •Continue Experimental Flight Test (EFT2), utilizing Intercontinental Ballistic Missile (ICBM) launches as a platform to evaluate experimental payloads. This flight test aims to facilitate the maturation of key technologies by subjecting them to realistic flight conditions and gathering performance data in a representative environment. The data collected during the flight will be instrumental in refining future payload designs, validating performance models, and ultimately advancing the technological readiness level of these experimental systems. •Continue future system demonstrator effort with the specific aim of creating advanced telemetric equipment designed to perform two critical functions: first, to collect comprehensive data from various components within the system being tested; and second, to transmit this collected data in real-time to receiving stations for analysis and evaluation. The data gathered will be crucial for validating design assumptions, refining system models, and ultimately ensuring the reliability and effectiveness of the system. •Continue research & development, and prototyping of advanced re-entry systems technologies in accordance with Inertial Navigation Technology Maturation, Sensor Fusion for Reentry Systems Technology Maturation, Advanced Fuzing Technology Maturation, Advanced Aeroshell Material Technology Maturation and Reentry Systems Test, Evaluation and Experimentation for potential insertion into the Path Length Module. •Continue to Bolster our ability to mature and deploy new ICBM technologies through demonstration and validation •Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding decreased overall by \$4.429M due to a combination of projects increasing (EFT 2 and Path Length Module Inertial Measuring Unit Development), other projects decreasing in scope (Future System Demonstrator), and project funding requirements ending (Radiation-Hardened Advanced Microelectronics and Payload Prototype Development).			
Accomplishments/Planned Programs Subtotals	21.989	49.402	44.973

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 05 PE 0605238F: <i>Ground Based Strategic Deterrent EMD</i>	4,327.250	2,011.024	2,647.563	-	2,647.563	-	-	-	-	-	-
• RDTE 07 PE 0101328F: <i>ICBM Reentry Vehicles</i>	452.306	392.423	259.605	-	259.605	-	-	-	-	-	-

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>	Project (Number/Name) 641022 / <i>ICBM Reentry Vehicle Applications</i>

D. Acquisition Strategy

Studies, analyses, limited engineering, and pre-prototype hardware development will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts and/or other obligating documentation considered most appropriate by obligating and performing agencies involved. Current effort deliverables include various technologies for ICBM reentry vehicles, including modeling and simulation software, alternate high-temperature materials, advanced concepts, and radiation-hardened microelectronics.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val				Project (Number/Name) 641022 / ICBM Reentry Vehicle Applications					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
RVAP Support	C/FFP	TBD : TBD	-	0.811	Nov 2024	1.381	Nov 2024	2.500	Feb 2026	-		2.500	-	-	-
RVAP Engineering Support	C/FP	JHU/APL : Various	-	1.350	Mar 2025	4.013	May 2025	2.500	Feb 2026	-		2.500	-	-	-
Subtotal			-	2.161		5.394		5.000		-		5.000	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
RVAP Future Operating Concept	MIPR	MSIC : Various	-	-		0.350	Mar 2025	0.500	Nov 2025	-		0.500	-	-	-
RVAP Terminal Tracking and Scoring	Various	Various : Various	-	-		1.738	Jul 2025	0.000	Nov 2025	-		0.000	-	-	-
RVAP Payload Prototype Development	Various	Various : Various	-	-		2.640	May 2025	-		-		-	-	-	-
RVAP Thermal Protection Systems	Various	Various : Various	-	2.890	Jan 2025	1.230	Feb 2025	1.000	Nov 2025	-		1.000	-	-	-
RVAP CM Highrider	Various	Various : Various	-	-		3.000	May 2025	3.000	Feb 2026	-		3.000	-	-	-
RVAP EFT 2	Various	Various : Various	-	3.276	Oct 2024	15.881	Nov 2024	22.702	Nov 2025	-		22.702	-	-	-
RVAP Future System Demonstrator	MIPR	Various : Various	-	4.351	Jan 2024	14.089	Oct 2024	8.000	Dec 2025	-		8.000	-	-	-
RVAP Path Length Module Inertial Measuring Unit Development	Various	Various : Various	-	2.348	Apr 2025	0.384	Jul 2025	2.866	Jan 2026	-		2.866	-	-	-
RVAP Radiation - Hardened Advanced Microelectronics	Various	Various : Various	-	5.918	Jan 2024	2.200	Jan 2025	-		-		-	-	-	-
RVAP SBIR III - Common Dispenser	Various	Various : Various	-	-		1.000	Jun 2025	1.500	Jan 2026	-		1.500	-	-	-
RVAP Zero Trust Architecture Study	Various	Various : Various	-	-		1.000	Jul 2025	-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>						Project (Number/Name) 641022 / <i>ICBM Reentry Vehicle Applications</i>			
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Subtotal			-	18.783		43.512		39.568		-		39.568	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
RVAP Program Support Costs	Various	Various : Various	-	0.964	Nov 2023	0.356	Dec 2024	0.280	Nov 2025	-		0.280	-	-	-
Travel	Various	Various : Various	-	0.081	Oct 2023	0.140	Nov 2024	0.125		-		0.125	-	-	-
Subtotal			-	1.045		0.496		0.405		-		0.405	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	21.989		49.402		44.973		-		44.973	-	-	N/A
Remarks															
•Experimentation Flight Tests (EFTs) are a vital component of the ICBM development process, and their effective execution necessitates a proactive approach to funding. Specifically, a three-year funding commitment is required prior to the anticipated launch year to adequately support the comprehensive planning and execution activities associated with each test. The EFT program, as a whole, is designed to provide a persistent and readily available capability for conducting experimentation flight tests of innovative ICBM technologies in operationally relevant environments. This standing capability is crucial for validating the performance and reliability of new technologies before they are integrated into operational systems. •Experimental Flight Test (EFT2) will address the combined technology demonstration requirements of multiple stakeholders, including the national laboratories, the Dem/Val program, and the Mk21A program. This collaborative approach maximizes the utility of each EFT and allows for the simultaneous demonstration of several critical industrial technologies.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val		Project (Number/Name) 641022 / ICBM Reentry Vehicle Applications	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
RVAP																												
RVAP Future Operating Concept																												
RVAP Terminal Tracking and Scoring																												
RVAP Payload Prototype Development																												
RVAP Thermal Protection Systems																												
RVAP CM Highrider																												
RVAP EFT 2																												
RVAP Future System Demonstrator																												
RVAP Path Length Module Inertial Measuring Unit Development																												
RVAP Radiation-Hardened Advanced Microelectronics																												
RVAP SBIR Phase III - Common Dispenser																												
RVAP Zero Trust Architecture Study																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val	Project (Number/Name) 641022 / ICBM Reentry Vehicle Applications	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
RVAP				
RVAP Future Operating Concept	3	2025	3	2027
RVAP Terminal Tracking and Scoring	4	2025	4	2028
RVAP Payload Prototype Development	4	2025	4	2030
RVAP Thermal Protection Systems	2	2025	4	2029
RVAP CM Highrider	3	2025	4	2029
RVAP EFT 2	1	2025	4	2027
RVAP Future System Demonstrator	1	2025	4	2030
RVAP Path Length Module Inertial Measuring Unit Development	3	2025	4	2029
RVAP Radiation-Hardened Advanced Microelectronics	2	2024	4	2025
RVAP SBIR Phase III - Common Dispenser	4	2025	4	2029
RVAP Zero Trust Architecture Study	4	2025	4	2030

Note

- Experimental Flight Tests (EFTs) are a vital component of the ICBM development process, and their effective execution necessitates a proactive approach to funding. Specifically, a three-year funding commitment is required prior to the anticipated launch year to adequately support the comprehensive planning and execution activities associated with each test. The EFT program, as a whole, is designed to provide a persistent and readily available capability for conducting experimentation flight tests of innovative ICBM technologies in operationally relevant environments. This standing capability is crucial for validating the performance and reliability of new technologies before they are integrated into operational systems.
- EFT2 will address the combined technology demonstration requirements of multiple stakeholders, including the national laboratories, the Dem/Val program, and the Mk21A program. This collaborative approach maximizes the utility of each EFT and allows for the simultaneous demonstration of several critical industrial technologies.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val				Project (Number/Name) 641024 / ICBM Command & Control (C2) Applications			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
641024: ICBM Command & Control (C2) Applications	0.000	0.000	25.369	10.563	0.000	10.563	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Command and Control Applications Program (C2AP) supports ICBM weapon system connectivity to the President and National Command Authorities. C2AP studies and assesses both legacy and future C2 system technologies. C2AP evaluates and develops assured, survivable, and secure communications and battlespace awareness between the missile Launch Control Centers and Launch Facilities essential for mission execution. Efforts include identifying and developing current and future technologies, as well as concepts that exploit state-of-the-art communications and information transfer techniques to both current and future ICBM systems. Products include studies, demonstrations, and tests such as ICBM Advanced C2 Capabilities architectures, networks, and systems to meet nuclear C2 requirements.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 OM was expended for civilian pay expenses in this program element, and in FY 2025 OM is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Command and Control Application Program	0.000	25.369	10.563
Description: Examine and develop concepts for transforming Advanced C2 Capabilities to meet current and future requirements.			
FY 2025 Plans:			
•Begin Advanced C2 Capabilities research to design and develop an enhanced and reliable communication system.			
•Begin end-to-end crypto effort to conduct a variety of cost-benefit studies for future system upgrades and modifications (Currently being executed under 641022 RVAP JHU Support, working to move over to 641024)			
•Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability.			
FY 2026 Plans:			
•Continue Advanced C2 Capabilities research to design and develop an enhanced and reliable communication system.			
•Continue end-to-end crypto effort to conduct a variety of cost-benefit studies for future system upgrades and modifications.			
•Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability.			
FY 2025 to FY 2026 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val				Project (Number/Name) 641024 / ICBM Command & Control (C2) Applications				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Funding decreased overall by \$14.806M, due to a combination of projects increasing (Advanced C2 Capabilities and End-to-End Crypto) and project funding requirements ending (AFGSC congressional add funding).												
Accomplishments/Planned Programs Subtotals										0.000	25.369	10.563
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 05 PE 0605238F: Ground Based Strategic Deterrent EMD	4,327.250	2,011.024	2,647.563	-	2,647.563	-	-	-	-	-	-	
Remarks												
D. Acquisition Strategy												
Studies, analyses, limited engineering, will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts and/or other obligating documentation considered most appropriate by obligating and performing agencies involved.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val				Project (Number/Name) 641024 / ICBM Command & Control (C2) Applications					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
C2AP Advanced C2 Capabilities	Various	Various : Various	-	-		6.300	Apr 2025	9.813	Apr 2026	-		9.813	-	-	-
C2AP AFGSC Congressional Add	Various	Various : Various	-	-		19.069	Sep 2025	-		-		-	-	-	-
C2AP End to End Crypto	Various	Various : Various	-	-		-		0.750	Nov 2025	-		0.750	-	-	-
Subtotal			-	-		25.369		10.563		-		10.563	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		25.369		10.563		-		10.563	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val					641024 / ICBM Command & Control (C2) Applications			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
C2AP																												
C2AP Advanced C2 Capabilities																												
C2AP AFGSC Congressional Add																												
C2AP End-to-End Crypto																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val	Project (Number/Name) 641024 / ICBM Command & Control (C2) Applications	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
C2AP				
C2AP Advanced C2 Capabilities	3	2025	2	2029
C2AP AFGSC Congressional Add	4	2025	4	2026
C2AP End-to-End Crypto	1	2026	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>				Project (Number/Name) 644209 / <i>Long Range Planning (LRP)</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
644209: <i>Long Range Planning (LRP)</i>	0.000	21.248	17.878	9.138	0.000	9.138	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Long Range Planning (LRP) effort identifies, analyzes, and evaluates potential modifications to current and future ICBM Weapon Systems required to meet warfighter objectives related to executing flight tests, long-term sustainment, technology insertion, battle space awareness, employment, force structure, and future systems. The studies will focus on system supportability, operability, reliability, innovation, and maintainability. Options/concepts generated by these studies are evaluated for feasibility, system impacts, and cost. LRP supports and conducts testing in support of future weapon system development and deployment. Pre-milestone activities may be conducted for current and/or future ICBM weapon systems, which may include entry criteria for milestone activities enabling a rapid response to evolving warfighter priorities and emerging requirements.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 0M was expended for civilian pay expenses in this program element, and in FY 2025 0M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Long Range Planning	21.248	17.878	9.138
Description: Analyze, study and plan current and future ICBM activities to meet requirements for long-term sustainment, novel technology insertion, employment force structure, and future systems.			
FY 2025 Plans: •Begin Stage 4 Propulsion comprehensive system study focused on improvements in safety, performance, cost, and sustainability: encompassing alternative propellant and architectures to support current and future advanced operational capabilities. •Continue assessing existing small and micro reactors, in both conceptual and practical development, defining power requirements, distribution architecture, type and design. (Strategic Independent Resilient Energy Systems). •Begin to develop, integrate and deploy nuclear certification models to support future ICBM development efforts as well as provide MBSE expertise to support NIYA. (System Architecture Framework). •Continue Advanced Flight Test Demonstrator Development & Integration Support to demonstrate RV technology in relevant flight environments. •Continue Small Business Innovative Research (SBIR) Phase II efforts.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force							Date: June 2025				
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val			Project (Number/Name) 644209 / Long Range Planning (LRP)				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2024	FY 2025	FY 2026		
•Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability.											
FY 2026 Plans:											
•Initiate subscale flight test efforts to provide sub scale launch capability for testing experimental technologies to support tech maturation.											
•Continue Stage 4 Propulsion comprehensive system study focused on improvements in safety, performance, cost, and sustainability: encompassing alternative propellant and architectures to support current and future advanced operational capabilities.											
•Continue to develop, integrate and deploy nuclear certification models to support future ICBM development efforts as well as provide MBSE expertise to support NIYA. (System Architecture Framework).											
•Continue Advanced Flight Test Demonstrator Development & Integration Support to demonstrate RV technology in relevant flight environments.											
•Conduct any necessary road map studies.											
•Initiate program/system data to coordinate Field Programmable Gate Array (FPGA) in a strategic system through the Nuclear Certification Process.											
•Respond to evolving warfighter priorities and emerging requirements in support of developing ICBM weapon system capability											
FY 2025 to FY 2026 Increase/Decrease Statement:											
Funding decreased overall by \$8.740M, due to a combination of projects increasing (Commercial Launch Provider for Sub-Scale Flight and Flight Test Platform), other projects decreasing in scope (Stage 4 Propulsion, System Architecture Framework, and Advanced Flight test demonstrator Development and Integration Support), and project funding requirements ending (Strategic Independent Resilient Energy Systems).											
Accomplishments/Planned Programs Subtotals											
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 05 PE 0605238F: Ground Based Strategic Deterrent EMD	4,327.250	2,011.024	2,647.563	-	2,647.563	-	-	-	-	-	-
• RDTE 07 0101328F: ICBM Reentry Vehicles	452.306	392.423	259.605	-	259.605	-	-	-	-	-	-
Remarks											

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>	Project (Number/Name) 644209 / <i>Long Range Planning (LRP)</i>
D. Acquisition Strategy Studies, analyses, limited engineering, and pre-prototype hardware development will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts and/or other obligating documentation considered most appropriate by obligating and performing agencies involved.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Mis sile - Dem/Val</i>						Project (Number/Name) 644209 / <i>Long Range Planning (LRP)</i>			
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
LRP Support	C/CPFF	BAE : Various	-	0.249	Jun 2024	0.515	Nov 2024	0.500	Mar 2026	-		0.500	-	-	-
Subtotal			-	0.249		0.515		0.500		-		0.500	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
LRP Alt Commercial Launch Provider for Sub-Scale Flight	C/CPFF	Various : Various	-	-		-		1.500	Apr 2026	-		1.500	-	-	-
LRP Flight Test Platform	Various	Various : Various	-	-		-		0.300	Apr 2026	-		0.300	-	-	-
LRP Stage 4 Propulsion	Various	Various : Various	-	-		2.000	Jun 2025	0.400	Jan 2026	-		0.400	-	-	-
LRP Strategic Independent Resilient Energy Systems	Various	Various : Various	-	-		2.000	Dec 2024	-		-		-	-	-	-
LRP System Architecture Framework	Various	Various : Various	-	-		3.574	Jul 2025	1.938	Dec 2025	-		1.938	-	-	-
LRP Advanced Flight test demonstrator Development & Integration Support	Various	Various : Various	-	2.546	Sep 2024	5.000	Jul 2025	1.000	Feb 2026	-		1.000	-	-	-
LRP SAP IT	Various	Various : Various	-	3.037	May 2024	-		1.000	Jan 2026	-		1.000	-	-	-
LRP SBIR Phase II	Various	Various : Various	-	0.718	Aug 2024	1.500	Apr 2025	-		-		-	-	-	-
LRP Experimental Flight Test 1	Various	Various : Various	-	7.955	Apr 2024	-		-		-		-	-	-	-
LRP Materials equipment and development congressional add	Various	Various : Various	-	-		0.000	Sep 2025	-		-		-	-	-	-
LRP AFGSC Modernization and Enhancement of Mission Capabilities	Various	TBD : TBD	-	6.743	Apr 2025	0.000	Sep 2025	-		-		-	-	-	-
Subtotal			-	20.999		14.074		6.138		-		6.138	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val						Project (Number/Name) 644209 / Long Range Planning (LRP)			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
LRP Program Support Costs	Various	Various : Various	-	-		3.289	May 2025	2.500	Jan 2026	-		2.500	-	-	-
Subtotal			-	-		3.289		2.500		-		2.500	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	21.248		17.878		9.138		-		9.138	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0603851F / Intercontinental Ballistic Mis sile - Dem/Val					644209 / Long Range Planning (LRP)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
LRP																												
LRP Alt Commercial Launch Provider for Sub-Scale Flight																												
LRP Flight Test Platform																												
LRP Stage 4 Propulsion																												
LRP Strategic Independent Resilient Energy Systems																												
LRP System Architecture Framework																												
LRP Advanced Flight Test Demonstrator Development & Integration Support and studies																												
LRP SAP IT																												
LRP SBIR Phase II																												
LRP Experimental Flight Test (EFT) 1																												
LRP AFGSC Modernization and Enhancement of Mission Capabilities																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>	Project (Number/Name) 644209 / <i>Long Range Planning (LRP)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
LRP				
LRP Alt Commercial Launch Provider for Sub-Scale Flight	3	2026	4	2030
LRP Flight Test Platform	3	2026	4	2030
LRP Stage 4 Propulsion	3	2025	4	2027
LRP Strategic Independent Resilient Energy Systems	1	2025	1	2026
LRP System Architecture Framework	4	2025	4	2026
LRP Advanced Flight Test Demonstrator Development & Integration Support and studies	4	2024	4	2026
LRP SAP IT	3	2024	4	2025
LRP SBIR Phase II	4	2024	4	2026
LRP Experimental Flight Test (EFT) 1	1	2024	3	2025
LRP AFGSC Modernization and Enhancement of Mission Capabilities	4	2024	4	2024

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0604001F / NC3 Advanced Concepts							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	5.274	5.448	15.910	0.000	15.910	-	-	-	-	-	-
646020: <i>NC3 Advanced Concepts</i>	0.000	5.274	5.448	15.910	0.000	15.910	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Nuclear Command, Control, and Communications (NC3) Advanced Concepts are required for analysis, development and prototyping of next generation NC3 systems and subsystems. This program ensures a responsive design and development engineering infrastructure to address evolving Nuclear Deterrence Operations (NDO) mission requirements; emerging issues and technology insertion/technology application on the NC3 Weapon System (WS), future strategic systems/capability, and other common strategic areas where appropriate; and develop enhanced multi-use capabilities. The NC3 Advanced Concepts Program will provide technology maturation and risk reduction activities to support the AF NC3 Weapon System (AN/USQ-225). Activity will reduce life cycle costs, inform technology maturation & risk reduction efforts, improve system performance, mitigate evolving threats, and ensure both viability and durability of the AF NC3 Weapon System.

Additional details can be provided at a higher classification.

The FY 2026 request was reduced by [0.060] million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.000M was expended for civilian pay expenses in this program element, and in FY 2025 \$0.000M is forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604001F I NC3 Advanced Concepts				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	10.011	10.148	10.180	0.000	10.180	
Current President's Budget	5.274	5.448	15.910	0.000	15.910	
Total Adjustments	-4.737	-4.700	5.730	0.000	5.730	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	-4.700	-4.700				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	-0.037	0.000	5.730	0.000	5.730	
Change Summary Explanation						
The FY2024 Congressional Reduction -4.737M due to under-execution and FFRDC						
The FY2025 Project Level Adjustment Tables - H.R. 1968, reduced by 4.700M due to Program Re-baseline						
The FY2026 funding request was reduced by -3.003M to rephase Advanced concept efforts						
The FY2026 funding increased +8.733M, Air Force program increase (FY2026 Adjustment total +5.730M)						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: NC3 Advanced Concepts				5.274	5.448	15.910
Description: NC3 Advanced Concepts activities will include, but are not limited to: conducting studies, analysis, and prototyping; test bed activities; exercise participation; developing modeling and simulation of identified NC3 WS architecture; integrated NC3 WS testing, validation, and certification; and direct mission support contracts in support of next generation NC3 systems and sub-systems. NC3 Advanced Concepts ensures a responsive design and development engineering infrastructure to address evolving NDO.						
FY 2025 Plans:						
Conduct studies, analysis, and prototyping; test bed activities; exercise participation; develop modeling and simulation of identified NC3 WS architecture; integrated NC3 WS testing, validation, and certification; direct mission support contracts in support of next generation NC3 systems and sub-systems; rapidly respond to evolving warfighter priorities and warfighter requirements.						
Additionally, FY2025 funding will continue to support risk reduction of emerging applicable technologies in such areas as antenna improvements, cyber resiliency, and network communications services which will inform evolving NC3 requirements, provide viable prototyping for testing and demonstration of technical capability, and reduce risk for NC3 modernization on programs						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604001F / NC3 Advanced Concepts			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
such as Sentinel and Global Aircrew Strategic Network Terminal (GASNT) Increment 2, Blocks 2 and 3. Funds will also continue to support High Frequency (HF) engineering analysis and standup of experimental infrastructure to reduce technical risk and schedule for potential future program of record/requirement. Details can be provided at higher classification levels. <i>FY 2026 Plans:</i> Conduct studies, analysis, and prototyping; test bed activities; exercise participation; develop modeling and simulation of identified NC3 WS architecture; integrated NC3 WS testing, validation, and certification; direct mission support contracts in support of next generation NC3 systems and sub-systems; rapidly respond to evolving warfighter priorities and warfighter requirements. Additionally, FY2026 funding will continue to support early development and risk reduction of emerging applicable technologies in such areas as radio enhancements, antenna improvements, evaluation of alternative communication paths for NC3, cyber resiliency, network communications services, and hardware enhancements which will inform evolving NC3 requirements as well as reduce risk via prototyping for emerging NC3 programs such as Sentinel and SAOC. Funds will also continue to support High Frequency (HF) engineering analysis and standup of experimental infrastructure to reduce technical risk and schedule for potential future program of record/requirement. Details can be provided at higher classification levels. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2025 to FY 2026 budget increase to fund additional advanced concept efforts such as radio enhancements, antenna improvements, evaluation of alternative communication paths for NC3, cyber resiliency, network communications services, and hardware enhancements				
Accomplishments/Planned Programs Subtotals		5.274	5.448	15.910
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy To conduct NC3 Advanced Concepts essential activities, a combination of competitively awarded contracts, sole source contracts, and/or other transaction authority, may be used to augment Air Force organic capabilities with technical skill sets from Federally Funded Research and Development Centers (FFRDCs), research laboratories, University-Affiliated Research Centers (UARCs), and industry Advisory and Assistance Services (A&AS) providers. All NC3 Advanced Concepts activities will be evaluated for promising technologies and considered for tech transition into the Air Force NC3 Weapon System.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604001F / NC3 Advanced Concepts				Project (Number/Name) 646020 / NC3 Advanced Concepts					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
NC3 Advanced Concepts	Various	Various : Various	-	5.274	Dec 2023	5.448	Oct 2024	15.910	Oct 2025	-		15.910	-	-	-
Subtotal			-	5.274		5.448		15.910		-		15.910	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	5.274		5.448		15.910		-		15.910	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 4								PE 0604001F / NC3 Advanced Concepts								646020 / NC3 Advanced Concepts			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
NC3 Advanced Concepts																												
Studies, analysis, and prototyping																												
Test bed activities and exercise participation																												
Develop modeling and simulation of identified NC3 WS architecture																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604001F / NC3 Advanced Concepts	Project (Number/Name) 646020 / NC3 Advanced Concepts	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NC3 Advanced Concepts				
Studies, analysis, and prototyping	1	2024	4	2030
Test bed activities and exercise participation	1	2024	4	2030
Develop modeling and simulation of identified NC3 WS architecture	1	2024	4	2030

Note
NC3 Advanced Concepts (Level of Effort)

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0604003F I Advanced Battle Management System (ABMS)							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	455.382	611.943	1,040.475	0.000	1,040.475	-	-	-	-	-	-
640141: Advanced Battle Management System (ABMS)	0.000	455.382	611.943	1,040.475	0.000	1,040.475	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

ABMS is the PE funding architecture and systems engineering (ASE), digital infrastructure, software and applications, aerial networking, deployable systems, and long range fires for the DAF's primary contribution to the Combined Joint All-Domain Command and Control (CJADC2) warfighting concept, which the DAF formally refers to as the DAF BATTLE NETWORK. The DAF Program Executive Office for Command, Control, Communication, and Battle Management (DAF PEO C3BM) has the lead role in battle management and Command and Control (C2) capabilities for the DAF. This entails not only directing technical integration throughout the DAF but also holding acquisition authorities to develop and implement organic materiel solutions. These solutions aim to establish resilient and widely distributable command and control capabilities within the DAF BATTLE NETWORK. The ABMS PE portfolio funds specific programs over which the DAF PEO C3BM exercises direct oversight in terms of cost, schedule, and performance. This encompasses both the management of these programs and the necessary architectural and systems engineering efforts to ensure effective technical coordination across the broader DAF infrastructure.

Additionally, DAF PEO C3BM has identified an initial array of approximately 50 core programs spanning various PEOs, whose organizations collectively form the C3BM Enterprise. These programs represent an evolving collection of systems that, when integrated together, are pivotal in contributing to the development of the DAF BATTLE NETWORK. Collaborating closely with the PEOs overseeing these core programs, DAF PEO C3BM will orchestrate technical integration of the DAF BATTLE NETWORK. This integration is essential to achieve the requisite operational decision advantage crucial for the triumph of the USAF, USSF, joint, and coalition forces in the face of evolving challenges. These inter-PEO initiatives encompass a spectrum of activities, such as technical and programmatic cooperation, comprehensive reporting, and seamless integration. With authority over technical architectures spanning the C3BM enterprise, DAF PEO C3BM will deliver C2 capabilities.

To provide a "best of breed" capability across the DAF and facilitate accelerated delivery of the DAF BATTLE NETWORK, DAF PEO C3BM has aligned activities within the ABMS PE portfolio with six major thrust areas:

Thrust Area 1: "Architecture and Systems Engineering (ASE)" will 1) conduct Digital Engineering to support technical development activities, 2) conduct mission domain architecture development and analysis and perform enterprise integration through domain-specific Mission Integration Teams (MITs), 3) leverage an Operational Response Team (ORT) to facilitate quick reaction prototyping and experimentation in response to warfighter-led efforts and new relevant technologies. The culmination of these activities will entail the identification, capture, refinement, and formalization of capability gaps, requirements, standards, and interface specifications, as well as potentially novel technologies, collectively paving the way for a blueprint to successfully deliver an all-encompassing integrated DAF BATTLE NETWORK architecture that informs execution of the following 3 thrust areas listed below.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0604003F I Advanced Battle Management System (ABMS)	
Thrust Area 2: "C3BM Digital Infrastructure (DI)" leverages the analysis, technical specifications and associated standards/formats produced by ASE to deliver a suite of fixed and deployable digital infrastructure solutions to enable global C2 and Battle Management (BM). To accomplish this, the following tasks are performed: 1) The Enterprise Systems Engineering Team (ESET) manages the ABMS Consortium to define the technical implementation of network architectures, style guides and standards that will facilitate integration of the larger DAF BATTLE NETWORK with ABMS (and vice versa); 2) build out of the physical DI Processing Nodes and DI Network (Software Defined Wide Area Network (SD-WAN), Tactical and Enterprise Cross Domain Solutions (CDS), and other similar requirements) that will enable the operational use of data and software to perform modern C2 functions at scale. DI activities include the ABMS Battle Lab to allow warfighters direct interaction with ABMS software development teams and prototypes in development, speeding up the feedback loop and product maturity. Thrust Area 3: "C3BM Software and Applications" provides a suite of battle management command and control (BMC2) applications and tools, conducted via two categories of activity. 1) Cloud-Based Command and Control (CBC2) is a suite of BMC2 applications and microservices in development for NORAD and USNORTHCOM & PACAF. CBC2 efforts include line of effort (LOE) #1 for a SW Integrator, LOE #2 for Agile Software Development at scale with an Integrated Digital Environment (IDE) for Model-based systems engineering (MBSE), and LOE #3 for Continuous Integration and Continuous Deployment (CI/CD) software pipelines, platform, data ingest, fusion, transport, storage, and access. CBC2 depends on the fixed DI activities of Thrust Area #2 and expects to begin scaling to support additional combatant commanders in FY26. 2) Distributed Battle Management Applications (DBMA) will continue development and extension of CBC2 functionality to other DAF BATTLE NETWORK entities (e.g. the Tactical Operations Center Family of Systems, or TOC FoS) in line with Air Combat Command's (ACC) Common BMC2 Interface concept, via the newly named CBC2+ program. Integral to the C3BM Software and Applications Thrust Area is the imperative to seamlessly align and integrate with various efforts, including multiple DoD & DAF software factories, centers of excellence dedicated to artificial intelligence and machine learning, and the DAF data fabric. Thrust Area 4: "C3BM Aerial Networking" will develop key technologies for the "final leg" connection of C3BM DI and Software and Applications to DAF aerial assets. Aerial Networking activities include: 1) Phalanx Griffon (PG), to extend C3BM aerial networking capabilities to tactically relevant aircraft. Major Release (MR) 2 will initiate and support initial capability delivery to long-range fires platforms by FY27. Phalanx Griffon will include continued development and maturation of multi-function processors, multi-function arrays, edge node hardware and software to host mission applications, and platform integration options to ease implementation and scaling. 2) The joint development of a SOSA-aligned, liquid and air-cooled integrated hybrid SATCOM chassis for rapid integration of PG capability by FY27, and 3) the C3 Hybrid SATCOM (C3HST) product line with a start date of FY26. The C3HST product line will consist of transition of the Global Lightning (GL) prototypes from AFRL to modernize and align those solutions to meet architectural requirements for multiple AF organizations. Thrust Area 5: "C3BM Deployable Systems" thrust to include Distributable Battle Management Node (DBMN) was previously captured under the C3BM Digital Infrastructure (DI) thrust area. The Deployable Systems effort will develop and deliver the Tactical Operations Center - Light (TOC-L) system. The TOC-L is a light, expeditionary BMC2 system designed to rapidly generate battle management effects tailored to mission needs, enabling the C2 warfighter to conduct independent, pulsed operations. The TOC-L enables tactical C2 elements to rapidly relocate, establish datalinks, connect to a variety of sensors, and operate in theater mission partner environments. TOC-L provides ground-based sensor and data-link integration, track correlation, and intelligence fusion, displayed on a Common Tactical Picture (CTP), leveraging and integrating with current and future capabilities across ABMS. Currently, the TOC-L program has two major releases (MR): 1) MR1 provided 16 operationally realistic experimentation kits to operational units; and 2) MR2, a Middle Tier of Acquisition (MTA) Rapid Prototyping program, which builds upon the lessons learned from MR1 and integrates other ABMS sub-systems.		

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Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604003F I Advanced Battle Management System (ABMS)	
Thrust Area 6: "C3BM DAF Integrated Fires C2" is the development of Beyond Line of Sight (BLOS) long range fire & control capability for specialized targets. The program consists of integrating multiple prototypes currently under development within AFRL and TENCAP into the DAF BATTLE NETWORK. This will include integration and synergistic fusion within the ABMS portfolio. To ensure delivery of projects in each Thrust Area, and to ensure alignment of the broader DAF from a battle management perspective, ABMS PE funding provides for program management support, operational concept development in collaboration with the ABMS Cross-Functional Team, and portfolio integration to orchestrate delivery of the DAF BATTLE NETWORK. Investments in the ABMS portfolio of programs aligns USAF investment with USSF investment (e.g., Space Command and Control (C2) Program Element PE (1208248SF) and the MeshOne-T PE (1206760SF)) to eliminate duplication of effort while optimizing capability delivery to create the DAF BATTLE NETWORK deliverable. ABMS DI aligns with ISR DI PE (0303010F) to provide a consistent set of capabilities, services and customer experience across all classification levels, and meets DAF requirements while ensuring compliance with Director of National Intelligence (DNI) requirements and minimizing duplication of effort. the FY 2026 cost of the Distributable Battle Management Node (DBMN) Phase II Tactical Operations Center-Light Rapid Prototyping Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission. The FY 2026 cost of the Deployable Digital Infrastructure Rapid Prototyping Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission. The FY 2026 cost of the Digital Infrastructure Network Major Release #1 Rapid Prototyping Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission. The FY 2026 cost of the Fixed Digital Infrastructure (FDI) MR1 Rapid Prototyping Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission. The FY 2026 cost of the Phalanx Griffon (PG) MR2 Rapid Prototyping Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission. The FY 2026 request was reduced by 4.648 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."		

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This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY2024 3.300M was expended for civilian pay expenses in this program element, and in FY2025 6.943M is forecast for civilian pay expenses in this program element.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		500.575	743.842	958.948	0.000	958.948
Current President's Budget		455.382	611.943	1,040.475	0.000	1,040.475
Total Adjustments		-45.193	-131.899	81.527	0.000	81.527
• Congressional General Reductions		-32.078	-131.899			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-12.617	0.000			
• Other Adjustments		-0.498	0.000	81.527	0.000	81.527
Change Summary Explanation						
FY 2024: Funding decreased by \$32.078M due to Congressional Mark, decreased by \$12.617M due to SBIR reduction, and decreased by \$0.498M due to FFRDC reduction.						
FY 2025: Funding decreased by \$131.899M due to Congressional Mark for unjustified growth.						
FY 2026: BY funding increases by \$81.527M due to increased Hybrid SATCOM and Phalanx Griffon efforts.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Architecture and Systems Engineering (ASE)				60.400	67.438	94.878
Description: Architecture and Systems Engineering (ASE) office is responsible for the technical integrity of the DAF BATTLE NETWORK as we integrate ABMS capabilities, the rest of the DAF's C2 systems, and other Services' capabilities under CJADC2. Architecture integration in system-of-systems mission threads and environments is critical to deliberately advancing the DAF's technological edge by informing architecture design, acquisition investments, system requirements for future capabilities, and acquisition baseline updates for current systems.						
FY 2025 Plans:						

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Digital Engineering (DE): -Continue to leverage, or create as necessary, a common DE approach and methodology for all the Mission Integration Teams to aggregate and analyze various cross-functional and cross-domain data products, and to then make them available to the C3BM Enterprise. Fund Model-Based Systems Engineering at the TS/SCI and SAP level for all ASE and DAF/OSD/Joint partners. This environment supports government sensitive C3BM and Joint partner planning and integration efforts. This DE environment is fully complementary to analogous contractor-led ABMS DE efforts. -Continue to develop Modeling & Simulation capabilities to enable evaluation of C3BM systems virtually via software digital twins. Mission Domain Architectures (MDA) and Mission Integration Team (MITs): -Operational Analysis: Continue to build models and provide mission value metrics for C3BM decisions. Invest in longer-lead modeling to enable rapid responsiveness to Mission Integration Team priorities set annually in consultation with C3BM Enterprise stakeholders. -Architecture Modeling: Continue to model interfaces and interactions for specified mission areas. Build team to support DAF programs, and OSD/Joint Staff on standards for integration. -System Engineering: Continue to develop and manage artifacts in the DE environment related to tracking interfaces, roadmaps and progress. -Risk Reduction: Continue to hold community-wide enterprise risk reviews yearly with different communities (operators, S&T, Tech Advisors, cyber) and manage enduring risk register and provide senior leader products. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. Operational Response Team (ORT): -Prototype Integration and Experimentation: Continue operational integration and experimentation of the initial Digital tactical edge connectivity prototype as it transitions to C3BM Digital Infrastructure for further development. -Continue to prototype and experiment Deployable DI mobile solutions that provide multi-level security compute and storage able to host mission data, data management software, and mission applications at deployed C2 nodes. Support identification, orchestration, "shepherding" and potential investment in emergent C3BM technologies. Rapidly develop and execute experimentation and prototyping activities in support of ASE findings to mitigate risks or exploit opportunity identified during mission engineering or architecture development work. -C3BM Vignette Analysis: Continue Counter-C5ISR (Command and Control, Communications, Computers, Cyber, Intelligence, Surveillance, Reconnaissance, Targeting) numerical analysis, modeling, and simulation to assess impact of specific capabilities on the ability to protect US assets and achieve mission success to prioritize DAF investments and modernization. FY 2026 Plans: Mission Domain Architectures (MDA) and Mission Integration Team (MITs):				

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
-Operational Analysis: Continue to build models and provide mission value metrics for C3BM decisions. Invest in longer-lead modeling to enable rapid responsiveness to Mission Integration Team priorities set annually in consultation with C3BM Enterprise stakeholders. -Architecture Modeling: Continue to model interfaces and interactions for specified mission areas. Build team to support DAF programs, and OSD/Joint Staff on standards for integration. -System Engineering: Continue to develop and manage artifacts in the DE environment related to tracking interfaces, roadmaps and progress. -Risk Reduction: Continue to hold community-wide enterprise risk reviews yearly with different communities (operators, S&T, Tech Advisors, cyber) and manage enduring risk register and provide senior leader products. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. - Digital Engineering (DE): Continue to leverage, or create as necessary, a common DE approach and methodology for all the Mission Integration Teams to aggregate and analyze various cross-functional and cross-domain data products, and to then make them available to the C3BM Enterprise. Fund Model-Based Systems Engineering (MBSE) at all security levels for all ASE and DAF/OSD/Joint partners. This environment supports government sensitive C3BM and Joint partner planning and integration efforts. This DE environment is fully complementary to analogous contractor-led ABMS DE efforts. Continue to develop Modeling & Simulation capabilities to enable evaluation of C3BM systems virtually via software digital twins. Operational Response Team (ORT): -Prototype Integration and Experimentation: Continue operational integration and experimentation of digital tactical edge connectivity prototypes and aid their transition to C3BM Digital Infrastructure for further development. -Continue to prototype and experiment Deployable DI mobile solutions that provide multi-level security compute and storage able to host mission data, data management software, and mission applications at deployed C2 nodes. Support identification, orchestration, "shepherding" and potential investment in emergent C3BM technologies. Rapidly develop and execute experimentation and prototyping activities in support of ASE findings to mitigate risks or exploit opportunity identified during mission engineering or architecture development work. -C3BM Vignette Analysis: Perform electromagnetic battle management (EMBM) numerical analysis, modeling, and simulation to assess impact of specific capabilities on advanced kill chains and protection of forward deployed assets in order to prioritize DAF investments in relevant architecture and battle management capabilities. -Experimentation and operational engagement with emerging Battle Management tools. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increases in FY 2026 due to furthered efforts in architecture development to ensure the technical integrity of the system of systems integration cross-cutting air, space, maritime, land, and homeland defense domains to integrate the DAF BATTLE NETWORK. Furthermore, integrated digital environment (IDE) efforts continue to scale across all 5 MITs in FY26 to provide a				

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
consistent engineering authoritative source of truth across all five MITs to enable development of C2 modeling and simulation (M&S) frameworks to support integrated modeling.				
Title: C3BM Digital Infrastructure (DI) Description: The C3BM DI effort reflects a composite of activities to deliver secure processing, connectivity and data management to the DAF BATTLE NETWORK. The ABMS DI activity orchestrates ongoing digital infrastructure activities to provide a multi-level security (i.e. unclassified to top secret) environment as a foundation for battle management C2 (BMC2) data and software across the space, airborne, and terrestrial domains. C3BM DI investments ensure the ability to connect the joint force and allow decision advantage at the tactical, operational, and strategic levels. In Fiscal Year 2024, C3BM DI started the initial phase of physical infrastructure procurement. Investments focus on hybrid commercial and tactical edge multi-level security, multi-cloud environments resulting in secure compute and storage capability. Solutions will provide tactical edge secure processing environments and tools to enable both "remote operations" and "on the move" operations when disconnected from the broader network and global environment. These secure processing solutions will host critical services such as robust data management solutions, zero-trust multi-level security applications, Artificial Intelligence (AI) algorithms and Machine Learning (ML) capabilities. FY 2025 Plans: Beginning in FY 2024, there are three major efforts within Thrust Area #2 - "C3BM Digital Infrastructure": - Enterprise Systems Engineering Team (ESET, encompasses ABMS Consortium activities and other portfolio-level systems engineering activities) - ABMS Digital Infrastructure (DI) - ABMS Battle Lab Enterprise Systems Engineering Team (ESET): -Continue management of the ABMS Consortium activity comprised of industry partners, FFRDC, and USG stakeholders performing operational analysis, mission analysis, Systems Engineering, and integration of ABMS Digital Infrastructure. -Continue data architecture, data tagging, and data orchestration design solutions and prototypes that enable available data to be exposed, processed, and transferred within multi-level security ABMS cloud environments. -Continue maturing the extension of the ABMS DI to the tactical edge based on operator and ABMS CFT input. -Continue maturing CONUS and OCONUS clouds by adding more data types, data transfers across classification levels, establishing data and network management standards and tools (e.g., SD-WAN), and developing and hosting cloud-native applications (e.g., Cloud-Based C2, advanced targeting tools, air base air defense applications). -Expand locations and content in the collaborative, multi-security-level, enterprise systems engineering ecosystem for architecture and modeling development.		235.451	274.759	377.250

UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
ABMS Digital Infrastructure (DI): -Continue to invest in technologies and solutions to expose, transport, and host data and mission/infrastructure software through widely used commercial best practices and techniques such as Application Program Interfaces (APIs) and standardized data fabric solutions. -Continue development and implementation of DI Network Major Releases 1 and 2, including SD-WAN, content delivery, network monitoring and security solutions, data link integration, scalable transport, cross domain solutions, and others. -Continue to develop and implement Deployable, Fixed, and Remote DI Node solutions that provide a multi-level security compute and storage environment able to host mission data, data management software, and mission applications at multiple echelons of command, including tactical and operational C2 nodes. -Stand up the support for Cloud deployment, Platform as a Service, and Infrastructure as a Service offerings to the DAF BATTLE NETWORK. -Continue to fund efforts related to DI Network and DI nodes in collaboration with Major Commands, Combatant Commands, Component Major Commands, the ABMS CFT, and C3BM ASE. As operational and technical requirements are refined, ABMS DI will look to accelerate development of acquisition strategies and propel additional efforts into execution. ABMS Battle Lab: -Continue experimentation efforts within the Battle Lab construct to accelerate requirements development. -Continue to integrate with and expand Battle Lab connections to Joint Partners. -Continue deployment of ABMS Digital Infrastructure to the Battle Lab. -Prepare to support experimentation for Distributed Battle Management Applications (DBMA) and CBC2+. -Will expand coordination pathways between the collaborative, enterprise systems engineering ecosystem for the sharing of models between ABMS DI and the Battle Lab. FY 2026 Plans: Enterprise Systems Engineering Team (ESET): -Continue management of the ABMS Consortium activity comprised of industry partners, FFRDC, and USG stakeholders performing operational analysis, mission analysis, Systems Engineering, and integration of ABMS Digital Infrastructure. -Continue data architecture, data tagging, and data orchestration design solutions and prototypes that enable available data to be exposed, processed, and transferred within multi-level security ABMS cloud environments. -Continue maturing the extension of the ABMS DI to the tactical edge based on operator and ABMS CFT input. -Continue maturing CONUS and OCONUS clouds by adding more data types, data transfers across classification levels, establishing data and network management standards and tools (e.g., SD-WAN), and developing and hosting cloud-native applications (e.g., Cloud-Based C2, advanced targeting tools, air base air defense applications).				

UNCLASSIFIED

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
-Expand locations and content in the collaborative, multi-security-level, enterprise systems engineering ecosystem for architecture and modeling development. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. ABMS Digital Infrastructure (DI): -Continue to invest in technologies and solutions to expose, transport, and host data and mission/infrastructure software through widely used commercial best practices and techniques such as Application Program Interfaces (APIs) and standardized data fabric solutions. -Continue development and implementation of DI Network Major Releases 1 and 2, including SD-WAN, content delivery, network monitoring and security solutions, data link integration, scalable transport, cross domain solutions, and others. -Continue to develop and implement Deployable, Fixed, and Remote DI Processing Node solutions that provide a multi-level security compute and storage environment able to host mission data, data management software, and mission applications at multiple echelons of command, including tactical and operational C2 nodes. -Continue to support Cloud deployment, Platform as a Service, and Infrastructure as a Service offerings to the DAF BATTLE NETWORK. -Continue to fund efforts related to DI Network and DI Processing Nodes in collaboration with Major Commands, Combatant Commands, Component Major Commands, the ABMS CFT, and C3BM ASE. As operational and technical requirements are refined, ABMS DI will look to accelerate development of acquisition strategies and propel additional efforts into execution. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. ABMS Battle Lab: -Continue experimentation efforts within the Battle Lab construct to accelerate requirements development. -Continue to integrate with and expand Battle Lab connections to Joint Partners. -Continue deployment of ABMS Digital Infrastructure to the Battle Lab. -Prepare to support experimentation for Distributed Battle Management Applications (DBMA) and CBC2+. -Will expand coordination pathways between the collaborative, enterprise systems engineering ecosystem for the sharing of models between ABMS DI and the Battle Lab. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding will increase significantly in FY26 due to furthered development and implementation of Deployable, Fixed, and Remote DI Processing nodes to tactical and operational C2 echelons of command, the scale up of cloud, platform and infrastructure offerings, as well as the integration and deployment of the DI-Network. Additional DI hardware across FDI and RDI will be procured in FY 2026.				
Title: C3BM Software and Applications		99.460	157.078	166.878

UNCLASSIFIED

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F <i>I Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: Under Thrust Area #3, the C3BM Software and Applications effort encompasses ABMS portfolio activities that deliver applications to facilitate sensor and effects integration. These applications comprise front end (e.g., User Interface and User Experience, or UI/UX, Course of Action Recommendation tools, etc.) and back end microservices (data fusion, data brokering, track management, etc.). C3BM Software and Applications leverage current DAF enterprise solutions (e.g. Cloud One, Platform One, etc.), as well as ABMS DI solutions as they become available. C3BM Software and Applications develops C2 applications and integrates with DoD & DAF Software Factories (e.g. Kessel Run, Kobayashi Maru, etc.) to eliminate duplicative development. These software efforts are complementary and are working to facilitate sharing of data and products from multiple domains and echelons of command to provide decision advantage. C3BM Software development activities are executed with a continuous integration/continuous delivery (CI/CD) model that places operators as a critical member of the team via MAJCOM-approved user agreements and drives agile software development activities to generate user feedback and consistent, high frequency product improvement. Cloud-Based C2 (CBC2): CBC2 modernizes battle management and command and control functions by replacing four existing C2 systems with modern Cloud-Based applications, enhanced by AI/ML, to create a common operating picture and decision aids. Initial development efforts are focused on delivery to Air Defense Sectors (ADS) in NORAD and USNORTHCOM (N&NC) as well as Pacific Air Defense Sector (PADS) and Alaska ADS (AADS) in INDOPACOM; however, CBC2 is also working to provide hardware and software solutions that are extensible to additional Combatant Commands (COCOMs). This software suite equips operators executing tactical C2 in CONUS and OCONUS ADS with modernized applications to ingest data from civilian and military sensors, fuse it with additional sources of data, conduct mission planning with machine-to-machine ingest of higher echelon tasking products, apply force accountability and risk assessments to a dynamic air picture with thousands of tracks, facilitate real time computing and scoring of Courses of Action (CoA) in order to speed F2T2EA timelines, and provide a UI/UX for battlespace awareness. CBC2 development follows commercial best practices for agile software development with an industry software integrator driving warfighter delivery across several independently contracted microservice developers. Distributed Battle Management Apps (DBMA): -The extensibility of CBC2 aligns to Operational Imperative #2 initiatives associated with distributed battle management and ACC's Common BMC2 Interface (CBC2+). Additional software development teams will be established to increase the number of C2 services that the core CBC2 applications for N&NC provide. Requirements currently under development for joint tactical integrated fire control and long range kill chains will trigger development activities for applications and advanced targeting tools development for maturing operational concepts including those that are needed at the Tactical Operations Center Family of Systems (TOC FoS) and other maturing operational concepts. DBMA work will also encompass coalition agreements, partnerships and data sharing for enhanced battle management activities.				

UNCLASSIFIED

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2025 Plans: CBC2: -Continue design/development activities focused on developing a scalable and extensible data-cloud architecture at multiple classification levels and different REL environments in partnership with ABMS Digital Infrastructure, and other DAF enterprise solutions that leverages AI/ML applications and produces a common operating picture. -Continue developing shared visualization of multiple sources, automated and fused representation of air domain. -Ingest, fuse, and analyze data from military, government, and commercial sources to multi-classification cloud environments. -Continue to develop automated and operator-selectable tasking of assets, voice, data and C2. -Continue integrating new and existing development teams with ABMS Software Integrator to create a micro-services CBC2 system that is fully government owned. -Continue building micro-services-based software applications that will enable distributed battle management. -Continue efforts to design and build infrastructure to support CBC2 in partnership with ABMS DI to include but not limited to: platform, cloud, cloud outposts, data transport, tactical data bus, identity management, zero trust network, cyber defense and data storage solutions. -Continue quarterly minimum viable capability (MVCR) releases, iteratively building out the Cloud-Based C2 application/software baseline and addressing product backlogs associated with N&NC deliveries. Distributed Battle Management Apps: -Continue development based on core CBC2 tactical C2 software suite to extend microservices functionality to support distributed BMC2 operational concepts and CBC2+ requirements and associated capability needs. -Continue to build microservices consistent with CBC2 development approach and in response to capability needs associated with joint tactical integrated fire control, long range kill chains, and other BMC2 functions. -Continue developing shared visualization consistent with CBC2 with automated and fused representation of multiple domains. -Continue integrating new and existing development teams with ABMS Software Integrator to create a microservices system that is fully government owned. -Continue quarterly MVCR, iteratively building out extensibility to additional distributed battle management operational concepts (e.g. Tactical Operations Center Family of Systems). -Continue facilitation of transition of advanced targeting tools to support long range fires C2 (e.g. developed under the Hawkeye program) by ensuring compatibility with ABMS digital infrastructure and battle management software. -Facilitate data sharing and collaboration with foreign coalition partners in delivering battle management capabilities. FY 2026 Plans: CBC2:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F <i>I Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
-Continue design/development activities focused on developing a scalable and extensible data-cloud architecture at multiple classification levels and different REL environments in partnership with ABMS Digital Infrastructure, and other DAF enterprise solutions that leverages AI/ML applications and produces a common operating picture. -Continue developing shared visualization of multiple sources, automated and fused representation of air domain. -Ingest, fuse, and analyze data from military, government, and commercial sources to multi-classification cloud environments. -Continue to develop automated and operator-selectable tasking of assets, voice, data and C2. -Continue integrating new and existing development teams with ABMS Software Integrator to create a micro-services CBC2 system that is fully government owned. -Continue building micro-services-based software applications that will enable distributed battle management. -Continue efforts to design and build infrastructure to support CBC2 in partnership with ABMS DI to include but not limited to: platform, cloud, cloud outposts, data transport, tactical data bus, identity management, zero trust network, cyber defense and data storage solutions. -Continue quarterly minimum viable capability (MVCR) releases, iteratively building out the Cloud-Based C2 application/software baseline and addressing product backlogs associated with N&NC deliveries. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. Distributed Battle Management Apps: -Continue development based on core CBC2 tactical C2 software suite to extend microservices functionality to support distributed BMC2 operational concepts and CBC2+ requirements and associated capability needs. -Continue to build microservices consistent with CBC2 development approach and in response to capability needs associated with joint tactical integrated fire control, long range kill chains, and other BMC2 functions. -Continue developing shared visualization consistent with CBC2 with automated and fused representation of multiple domains. -Continue integrating new and existing development teams with ABMS Software Integrator to create a microservices system that is fully government owned. -Continue quarterly MVCR, iteratively building out extensibility to additional distributed battle management operational concepts (e.g. Tactical Operations Center Family of Systems). -Continue facilitation of transition of advanced targeting tools (e.g. developed under the Hawkeye program) by ensuring compatibility with ABMS digital infrastructure and battle management software. -Facilitate data sharing and collaboration with foreign coalition partners in delivering battle management capabilities. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. FY 2025 to FY 2026 Increase/Decrease Statement: Funding will increase significantly in FY26 due to continuous integration and continuous delivery (CI/CD) software development for both CBC2 and CBC2+ activities for multiple Combatant Commands simultaneously. Software teams will increase contributions				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F <i>I Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
to CBC2+ activities with additional CBC2+ software development teams to continue to support emerging capability requirements and follow-on integration activities for distributed battle management operational concepts and ACC's CBC2+ with the Tactical Operations Center Family of Systems.				
Title: C3BM Aerial Networking Description: Under Thrust Area #4, the C3BM Aerial Networking efforts encompass two efforts to deliver secure processing and connectivity architecture solutions that will enable sensor and effects integration with DAF platforms. Aerial Networking leverages government reference architecture and the ongoing ABMS DI investments to connect select Tac Air assets and C2 functions to the ABMS cloud at the tactical edge, enhancing Situational Awareness and decision making at multiple echelons. Aerial Networking's first implementation, known as Capability Release #1 (CR #1), is a prototype communications subsystem, platform integration, and a tactical edge node planned to be demonstrated on a KC-46 in FY24. Onboard secure compute/storage infrastructure will host mission-relevant applications and be developed as a roll-on/roll-off capability using commercial solutions. C3BM Aerial Networking includes a follow-on effort, known as Phalanx Griffon (PG), which will extend AN architecture and capabilities to tactically relevant aircraft based on maturing operational concepts and aerial network road mapping activities. This capability will be targeted toward tactical aircraft such as the F-15E/EX, which can be traced back to Operational Imperative #2 operational analysis and ACC input. Aerial Networking prototype efforts will inform future design and fielding activities for platforms and C2 functions. FY 2025 Plans: CR #1: -Complete final demonstration event of the prototype subsystem on a KC-46. -Complete integration of Tactical Edge Node capability on the KC-46 and flights for test, military utility assessments, and Concept of Operations experimentation. -Complete development of a palletized compute and store enclave with local cloud storage, cloud synchronization, and network management functions. -Deliver Technical Data Package and Study results to enable potential follow-on development and integration activities. -Demonstrate fieldable KC-46 capability via Tactical Edge Node hardware and organic KC-46A communications capabilities. Phalanx Griffon: -Develop/Integrate hardware architecture solutions, leverage CR#1 capabilities as applicable (e.g. security cryptographic module, or SCM) to continue development of open architecture multi-function processor tailored for hosting on tactical aircraft (e.g., F-15E/EX). -Conduct planning for test and demonstration activities associated with Phalanx Griffon.		35.283	69.065	211.626

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions) -Continue development of content routing and communications software. -Continue to develop a Technical Data Package, leveraging digital engineering, modern software development practices, and open architecture principles to enable follow-on development and integration activities on other operationally relevant platforms. FY 2026 Plans: Phalanx Griffon: -Develop/Integrate hardware and software solutions to continue development of an aerial node that meets C3 architectural requirements and can be tailored for hosting on tactical aircraft (e.g., F-15E/EX). -Conduct planning for test and demonstration activities associated with Phalanx Griffon. -Continue development and flight testing of content routing and communications software. -Continue to develop a Technical Data Package, leveraging digital engineering, modern software development practices, and open architecture principles to enable follow-on development and integration activities on other operationally relevant platforms. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. C3 Hybrid SATCOM: -Develop multi-band SATCOM apertures and terminals. -Develop SATCOM capability to enable sharing of data in accordance with DAF BATTLE NETWORK architecture. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. FY 2025 to FY 2026 Increase/Decrease Statement: Funding will increase significantly due to furthered progress of Phalanx Griffon development and hardware procurement. Additional funding is necessary to initiate C3 Hybrid SATCOM terminal and aperture development and procurement throughout FY 2026.		FY 2024	FY 2025	FY 2026
Title: Deployable Systems Description: The Deployable Systems thrust was previously captured under the C3BM Digital Infrastructure (DI) thrust area. The Deployable Systems effort will develop and deliver the Tactical Operations Center - Light (TOC-L) system. The TOC-L is a light, expeditionary BMC2 system designed to rapidly generate battle management effects tailored to mission needs, enabling the C2 warfighter to conduct independent, pulsed operations. The TOC-L enables tactical C2 elements to rapidly relocate, establish datalinks, connect to a variety of sensors, and operate in theater mission partner environments. TOC-L provides ground-based sensor and data-link integration, track correlation, and intelligence fusion, displayed on a Common Tactical Picture (CTP), leveraging and integrating with current and future capabilities across ABMS. Currently, the TOC-L program has two major releases (MR): 1) MR1 provided 16 operationally realistic experimentation kits to operational units; and 2) MR2, a Middle Tier of Acquisition (MTA) Rapid Prototyping program, which builds upon the lessons learned from MR1 and integrates other ABMS sub-systems.		24.788	43.603	91.843

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2025 Plans: - Conduct experimentation and testing with TOC-L MR 1 kits in multi-domain joint force exercises, with a focus on INDOPACOM Defense of Guam initiatives, joint fire integration, and long-range kill chain scenarios. - Develop and deliver TOC-L MR 2 Prototype kits, integrating Deployable Digital Infrastructure (DDI) components and Cloud-Based Command and Control (CBC2) software in the baseline. - Complete the System Requirements Review (SRR) and Preliminary Design Review (PDR) for TOC-L MR 2 - Deliver up-to-date software features for the Battlespace Command, Control, and Communications (BC3) battle management software to TOC-L, Air Base Air Defense for Missile Defense and the Control and Reporting Center programs.				
FY 2026 Plans: - Will conduct experimentation and testing with TOC-L MR 1 kits in multi-domain joint force exercises, with a focus on INDOPACOM Defense of Guam initiatives, joint fire integration, and long-range kill chain scenarios. - Will complete the system design, technical evaluation, production, integration and acceptance testing of the first article MR 2 prototypes. - Will conduct formal combined Developmental Test and Evaluation and Operational Test and Evaluation to inform full prototype production decision and follow-on fielding effort determination. - Will deliver up-to-date software features for the Battlespace Command, Control, and Communications (BC3) battle management software to TOC-L, Air Base Air Defense for Missile Defense and the Control and Reporting Center programs.				
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increasing due to MR2 contract activities ramping up to build eleven full kits including two prototypes for testing. Increased funding is necessary to procure 7 additional TOC-L kits.				
Title: DAF Integrated Fires C2 Description: Department of the Air Force Integrated Fires Command and Control (DIFC2) is the development of Beyond Line of Sight (BLOS) long range fire & control capability for specialized targets. DIFC2 Software development efforts were included in the DBMA efforts in FY 2025. The program is charged to integrate multiple disparate systems into the DAF Battle Network. Activities include the creation and synergistic fusion of battle management software microservices, leveraging enterprise digital infrastructure to construct a scalable Battle Management Command, Control, and Communications (BMC3) technical stack, and connection to the future Joint Fires Network/Deployable Digital Infrastructure (JFN/DDI) network hardware solution for the digital ingestion and processing of command orders and intent.		-	0.000	98.000
FY 2025 Plans: -DIFC2 software development efforts are included in the DBMA efforts, within Thrust #3 in FY 2025. -Tracking/guiding prototype capability development efforts.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
-Establish required documentation, personnel, infrastructure, and pipeline resources to support transition of existing prototypes into a common baseline for continued development. -Pursue modeling and simulation, signal chain demonstration in a lab environment, infrastructure systems engineering, battle management microservice development, a technical readiness assessment, and preparation for technology injection into a Joint Exercise. <i>FY 2026 Plans:</i> -Funding and tracking/guiding prototype capability development efforts. -Establish required documentation, personnel, infrastructure, and pipeline resources to support transition of existing prototypes into a common baseline for continued development. -In line with OI#2 and OI#3, the DIFC2 program will continue to pursue modeling and simulation, signal chain demonstration in a lab environment, infrastructure systems engineering, battle management microservice development, a technical readiness assessment, and preparation for technology injection into a Joint Exercise. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding increases due to maturing automated functional applications for sensor tasking, track custody, processing of orders, battle management, and communications management. Further the program will integrate applications for a signal chain demonstration while ensuring software transferability to a scalable enterprise digital infrastructure. Additionally, the program will assess technical readiness of the integrated system as it prepares to contribute to a joint exercise.				
Accomplishments/Planned Programs Subtotals		455.382	611.943	1,040.475
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy The ABMS agile acquisition strategy and development approach is modeled after the path of commercial innovation and internet of things technology practices and should be viewed as a portfolio of acquisition efforts and not as a monolithic program. The acquisition strategy develops capabilities - that might traditionally be delivered as a monolith in the Government - via modular components and then integrates them through open standards and an open architecture derived from ASE driven analysis. Modularity and openness enable consistent competition and continuous innovation, as well as more rapid upgrade of product capabilities. Software development and hardware development can both follow this path—a proven, successful model that is employed in the commercial world as well as in agile government entities.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604003F I Advanced Battle Management System (ABMS)	
The iterative nature of technology and speed of technical obsolescence in the 21st century digital age mandate an agile approach to capability development, integration, and delivery that is both rapid and continuous. DAF PEO C3BM will make targeted investments in select areas and technologies to stabilize and integrate core operational capabilities, expedite the delivery of warfighter capability, and close operational gaps. This model continues to be matured in FY2026, as a number of digital infrastructure and software development efforts are in execution deploying minimum viable products across the DAF in keeping with a continuous integration/ continuous delivery mindset where operators are involved in regular feedback loops and a variety of traditional and non-traditional defense contractors are involved in delivery. To enable the speed and agility required by this acquisition strategy, the ABMS acquisition efforts have developed a contracting strategy that is highly flexible. Though the program employs the full range of contracting authorities, ABMS is currently utilizing, at a minimum, the following contracting vehicles to execute requirements: 1) JADC2 Multiple-Award, Multi-Level Security (MA-MLS) Indefinite Delivery/Indefinite Quantity (ID/IQ) vehicle; 2) JADC2 Broad Agency Announcement with Calls to include a Call soliciting sources to participate in Cooperative Research and Development Agreements (CRADAs); 3) JADC2 Commercial Solutions Opening; 4) Small Business Innovation Research Phase III efforts; and 5) already existing contract vehicles where ABMS acquisition efforts are within scope. Additional vehicles will be considered on an as-needed basis.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604003F / Advanced Battle Management System (ABMS)				Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ASE: Mission Domain Architecture & Mission Integration Team	Various	DAF PEO C3BM: Multiple : TBD	-	50.683	Oct 2023	59.138	Oct 2024	81.925	Oct 2025	-		81.925	-	-	-
ASE: Operational Response Team	Various	DAF PEO C3BM: Multiple : TBD	-	9.717	Oct 2023	8.300	Oct 2024	12.953	Oct 2025	-		12.953	-	-	-
DI: ABMS Digital Infrastructure	Various	DAF PEO C3BM: Multiple : TBD	-	167.282	Jun 2024	207.345	Oct 2024	302.896	Oct 2025	-		302.896	-	-	-
DI: Enterprise Systems Engineering Team (ESET)	C/FP	DAF PEO C3BM: Multiple : TBD	-	32.562	Jun 2024	28.166	Oct 2024	13.460	Oct 2025	-		13.460	-	-	-
Deployable Systems: Distributable Battle Management Node	Various	DAF PEO C3BM: Various : TBD	-	24.788	Oct 2023	43.603	Oct 2024	83.000	Oct 2025	-		83.000	-	-	-
Software/Apps: Cloud-Based Command and Control (CBC2)	Various	DAF PEO C3BM: Multiple : TBD	-	92.318	Sep 2024	109.500	Oct 2024	63.667	Oct 2025	-		63.667	-	-	-
Software/Apps: Distributed Battle Management Applications (DBMA)	Various	DAF PEO C3BM: Multiple : TBD	-	0.000	Sep 2024	26.500	Oct 2024	86.211	Oct 2025	-		86.211	-	-	-
Aerial Networking: Airborne Edge Node (AEN) CR#1	Various	DAF PEO C3BM: Multiple : TBD	-	19.148	Sep 2024	7.835	Oct 2024	0.000	Oct 2025	-		0.000	-	-	-
Aerial Networking: Phalanx Griffon	Various	DAF PEO C3BM: Multiple : TBD	-	6.207	Sep 2024	48.874	Oct 2024	115.490	Oct 2025	-		115.490	-	-	-
Aerial Networking: C3 Hybrid SATCOM	Various	DAF PEO C3BM: Multiple : TBD	-	-		-		71.136	Oct 2025	-		71.136	-	-	-
DAF Integrated Fires C2	Various	DAF PEO C3BM: Multiple : TBD	-	-		-		98.000	Oct 2025	-		98.000	-	-	-
SBIR/STTR	TBD	TBD : TBD : TBD	-	0.000	Oct 2023	16.451	Oct 2024	38.082	Oct 2025	-		38.082	-	-	-
Subtotal			-	402.705		555.712		966.820		-		966.820	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604003F / Advanced Battle Management System (ABMS)				Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority: Civilian Pay	TBD	DAF PEO C3BM: Multiple : TBD	-	1.792	Oct 2023	3.300	Oct 2024	6.943	Oct 2025	-		6.943	-	-	-
Subtotal			-	1.792		3.300		6.943		-		6.943	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
DI: Test	Various	Various : TBD	-	8.489	Jan 2024	7.270	Jan 2025	7.561	Jan 2026	-		7.561	-	-	-
Software/Apps: Test	Various	Various : TBD	-	1.078	Jan 2024	1.988	Jan 2025	2.048	Jan 2026	-		2.048	-	-	-
Aerial Networking: Test	Various	Various : TBD	-	2.163	Jan 2024	2.600	Jan 2025	2.678	Jan 2026	-		2.678	-	-	-
Deployable Systems: Test	Various	Various : TBD	-	1.225	Jan 2024	-		1.567	Jan 2026	-		1.567	-	-	-
DAF Integrated Fires C2	Various	Various : TBD	-	-		-		0.746	Jan 2026	-		0.746	-	-	-
Subtotal			-	12.955		11.858		14.600		-		14.600	-	-	N/A
Remarks Aligned test activities to thrust areas.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
FFRDC	Various	Various : TBD	-	10.302	Oct 2023	-		-		-		-	-	-	-
A&AS/SETA	Various	Various : TBD	-	9.483	Oct 2023	11.348	Oct 2024	16.579	Oct 2025	-		16.579	-	-	-
Other Support	Various	Various : TBD	-	18.145	Oct 2023	29.725	Oct 2024	35.533	Oct 2025	-		35.533	-	-	-
Subtotal			-	37.930		41.073		52.112		-		52.112	-	-	N/A
Remarks Moved FFRDC to Product Development category starting in FY2025 to reflect that personnel are performing technical/engineering developmental support to each of the five thrust areas program activities.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force										Date: June 2025				
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604003F / Advanced Battle Management System (ABMS)					Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)				
	Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	-	455.382		611.943		1,040.475		-		1,040.475	-	-	N/A	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604003F / Advanced Battle Management System (ABMS)	Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
ABMS																												
Architecture and Systems Engineering (ASE)																												
ASE: Mission Domain Architecture and Mission Integration Team																												
ASE: Operational Response Team																												
DI: ABMS Digital Infrastructure																												
DI: Enterprise Systems Engineering Team																												
DI: ABMS DI Test																												
Software/Apps: Cloud-Based Command and Control (CBC2)																												
Software/Apps: Distributed Battle Management Applications (DBMA)																												
Software/Apps: Test																												
Aerial Networks: Airborne Edge Node (AEN) CR#1																												
Aerial Networks: Phalanx Griffon																												
Aerial Networks: C3 Hybrid SATCOM																												
Aerial Networks: Test																												
Deployable Systems: Distributable Battle Management Node (DBMN)																												
Deployable Systems: Test																												
DAF Integrated Fires C2																												
DAF Integrated Fires C2: Test																												
FFRDC																												
A&AS																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																								Date: June 2025													
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0604003F / Advanced Battle Management System (ABMS)								Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)																			
										FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
										1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Other Support																																					

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>	Project (Number/Name) 640141 / <i>Advanced Battle Management System (ABMS)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ABMS				
Architecture and Systems Engineering (ASE)	1	2024	4	2030
ASE: Mission Domain Architecture and Mission Integration Team	1	2024	4	2030
ASE: Operational Response Team	1	2024	4	2030
DI: ABMS Digital Infrastructure	1	2024	4	2030
DI: Enterprise Systems Engineering Team	3	2024	4	2030
DI: ABMS DI Test	2	2024	4	2030
Software/Apps: Cloud-Based Command and Control (CBC2)	1	2024	4	2026
Software/Apps: Distributed Battle Management Applications (DBMA)	1	2025	4	2030
Software/Apps: Test	2	2024	4	2030
Aerial Networks: Airborne Edge Node (AEN) CR#1	1	2024	4	2025
Aerial Networks: Phalanx Griffon	1	2024	4	2030
Aerial Networks: C3 Hybrid SATCOM	1	2025	4	2030
Aerial Networks: Test	2	2024	4	2030
Deployable Systems: Distributable Battle Management Node (DBMN)	1	2024	4	2030
Deployable Systems: Test	1	2024	4	2030
DAF Integrated Fires C2	1	2024	4	2030
DAF Integrated Fires C2: Test	2	2026	4	2030
FFRDC	1	2024	4	2030
A&AS	1	2024	4	2030
Other Support	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604004F / <i>Advanced Engine Development</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	269.971	100.000	0.000	0.000	0.000	-	-	-	-	-	-
640020: <i>Advanced Engine Technologies</i>	0.000	269.971	0.000	0.000	0.000	0.000	-	-	-	-	-	-
643608: <i>Advanced Engine Dev</i>	0.000	0.000	100.000	0.000	0.000	0.000	-	-	-	-	-	-

Note

Transfers: In FY2024, Next Generation Adaptive Propulsion (NGAP) program was transferred out of PE 0604004F, Advanced Engine Development, BPAC 643608, Advanced Engine Development to its own program element 0604010F, NGAP to comply with 2024 Appropriations Bill and accompanying Joint Explanatory Statement language directing the DAF maintain the new NGAP budget line.

A. Mission Description and Budget Item Justification

The Advanced Engine Development (AED) Program includes all efforts necessary to develop and evaluate advanced propulsion system components and prototypes in realistic environments. The program also includes all efforts to define and evaluate required modifications to commercial and military off the shelf propulsion systems for use in existing and future aircraft and munitions. These activities enable maturation and risk reduction of advanced propulsion system architectures, designs, modifications, enabling materials and technologies, and manufacturing processes for follow-on Engineering, Manufacturing and Development and integration efforts. Prototyping and assessments of the prototypes at sea-level, simulated altitudes, and durability assessments across multiple power settings provides data to validate system performance, calibrate engineering models, and ensure appropriate manufacturing and technology readiness for future propulsion system development and platform integration as well as potential insertion into already fielded propulsion systems.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$4.971 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.0 million is forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025			
Appropriation/Budget Activity		R-1 Program Element (Number/Name)					
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604004F I Advanced Engine Development					
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget		595.352	562.337	439.897	0.000	439.897	
Current President's Budget		269.971	100.000	0.000	0.000	0.000	
Total Adjustments		-325.381	-462.337	-439.897	0.000	-439.897	
• Congressional General Reductions		0.000	0.000				
• Congressional Directed Reductions		0.000	0.000				
• Congressional Rescissions		0.000	0.000				
• Congressional Adds		269.971	100.000				
• Congressional Directed Transfers		0.000	0.000				
• Reprogrammings		0.000	0.000				
• SBIR/STTR Transfer		0.000	0.000				
• Other Adjustments		-595.352	-562.337	-439.897	0.000	-439.897	
Congressional Add Details (\$ in Millions, and Includes General Reductions)							
						FY 2024	FY 2025
Project: 640020: Advanced Engine Technologies							
Congressional Add: Advanced Engine Technologies						269.971	0.000
Congressional Add Subtotals for Project: 640020						269.971	0.000
Project: 643608: Advanced Engine Dev							
Congressional Add: Advanced Engine Development						0.000	100.000
Congressional Add Subtotals for Project: 643608						0.000	100.000
Congressional Add Totals for all Projects						269.971	100.000
Change Summary Explanation							
The 2024 Defense Appropriations and Joint Explanatory Statement established a new budget line, PE 0604010F, for the Next Generation Adaptive Propulsion (NGAP) program and directed the Department of the Air Force (DAF) to maintain the new budget line. Additionally, the 2024 Defense Appropriations added \$280.000 million to this program, Advanced Engine Development, for Advanced Engine Development.							
FY 2025 President's Budget (PB) delivered to the Hill prior to enactment of the FY 2024 Appropriations bill which established a new PE for the NGAP program. The bill also added \$280.000 million for Advanced Engine Technologies. DAF submitted a technical adjustment to the FY 2025 PB requesting realignment of NGAP funding to the new budget line, PE 0604010F. The Year Long Continuing Resolution for FY 2025 realigned NGAP funding and added \$100 million for Advanced Engine Development, PE 0606004F.							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604004F / <i>Advanced Engine Development</i>	
Other Adjustments: Reflect realignment of NGAP FY 2024, FY 2025 and FY 2026 funding from this program (PE 0604004F, Advanced Engine Development) to the new NGAP PE 0604010F in accordance with the FY 2024 Defense Appropriations and Joint Explanatory Statement.		

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604004F / Advanced Engine Developm ent				Project (Number/Name) 640020 / Advanced Engine Technologies			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640020: Advanced Engine Technologies	0.000	269.971	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Advanced Engine Technology activities expand industrial base knowledge and skills enabling future advanced propulsion system architectures and designs; propulsion systems include the inlet, engine and nozzle. Activities include:

- Addressing manufacturing producibility, affordability, quality, risks and issues throughout the development process to improve product quality; enhance manufacturing processes; and strengthen the supply chain.
- Maturing alloy, coatings, and composites to meet next generation component requirements through composite trials and component testing.
- Developing Model Based Inspections techniques and increasing digital collaboration between Government and Industry to expand capability and capacity for future application.
- Expanding use of Model Based Systems Engineering and incorporating learnings into advanced combat engine model development.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025
Congressional Add: Advanced Engine Technologies	269.971	0.000
FY 2024 Accomplishments: Awarded contracts and initiated Adaptive Cycle Engine Technology efforts. Prepared request for proposals for remaining Advanced Engine Technology efforts.		
FY 2025 Plans: No FY 2025 funding requested. Awarded contracts for the remaining Advanced Engine Technology efforts funded with the FY 2024 Congressional Add.		
Congressional Adds Subtotals	269.971	0.000

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

N/A

Remarks

D. Acquisition Strategy

Leverage the contractual scope, available contract ceiling and schedule efficiencies of existing Federal Acquisition Regulation (FAR) based contracts and Other Transactional Authority (OTA) agreements. The government agency responsible for managing this program is the Air Force Life Cycle Management Center, Propulsion Directorate, Wright-Patterson Air Force Base, Ohio.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 4						PE 0604004F / Advanced Engine Development					640020 / Advanced Engine Technologies				
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Engine Technology Efforts	C/CPFF	Multiple : Multiple	-	269.971	Aug 2024	-		-		-		-	-	-	-
Subtotal			-	269.971		-		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	269.971		-		-		-		-	-	-	N/A
Remarks															
Advanced Engine Technology efforts executing in accordance with FY 2024 Congressional Add language and approved spend plan. Additional details available in the appropriate forum.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 4								PE 0604004F / Advanced Engine Development								640020 / Advanced Engine Technologies			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Advanced Cycle Engine Technology																												
Period of Performance of contracts																												
Manufacturing Techniques and Process Improvements																												
Period of Performance of contracts																												
Advance Novel Materials																												
Period of Performance of contracts																												
Digital Design Enhancement Capabilities																												
Period of Performance of contracts																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604004F / Advanced Engine Development	Project (Number/Name) 640020 / Advanced Engine Technologies	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Advanced Cycle Engine Technology				
Period of Performance of contracts	4	2024	2	2026
Manufacturing Techniques and Process Improvements				
Period of Performance of contracts	2	2025	2	2026
Advance Novel Materials				
Period of Performance of contracts	2	2025	2	2026
Digital Design Enhancement Capabilities				
Period of Performance of contracts	2	2025	2	2026

Note
Additional details available in the appropriate forum.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604004F / <i>Advanced Engine Development</i>				Project (Number/Name) 643608 / <i>Advanced Engine Dev</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
643608: <i>Advanced Engine Dev</i>	0.000	0.000	100.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification
 Advanced Engine Development (AED) activities include all efforts necessary to develop and evaluate all thrust classes of advanced propulsion system architectures, designs, enabling advanced materials, component technologies, and manufacturing processes in realistic environments. AED also includes all efforts to define and evaluate modifications to commercial and military off the shelf propulsion systems for use in existing and future, aircraft and munitions. Prototyping and assessments of the prototypes at sea-level, simulated altitudes, and durability assessments across multiple power settings provide data to validate performance, calibrate engineering models, and ensure appropriate manufacturing and technology readiness for future propulsion system development and platform integration as well as potential insertion into already fielded propulsion systems. This project advances propulsion technologies from Advanced Technology Development (ATD) into Engineering and Manufacturing Development (EMD) when appropriate; some propulsion technologies may transfer directly from ATD into EMD.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025
Congressional Add: Advanced Engine Development	0.000	100.000
FY 2024 Accomplishments: None, FY 2024 Congressional Add for Advanced Engine Technologies, not Advanced Engine Development.		
FY 2025 Plans: Spend plan for FY 2025 Congressional Add in coordination.		
Congressional Adds Subtotals	0.000	100.000

C. Other Program Funding Summary (\$ in Millions)
 N/A

Remarks

D. Acquisition Strategy
 Leverage the contractual scope, available contract ceiling and schedule efficiencies of existing Federal Acquisition Regulation (FAR) based contracts and Other Transactional Authority (OTA) agreements. The government agency responsible for managing this program is the Air Force Life Cycle Management Center, Propulsion Directorate, Wright-Patterson Air Force Base, Ohio.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604004F / Advanced Engine Developm ent						Project (Number/Name) 643608 / Advanced Engine Dev			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Engine Development	C/Various	TBD : TBD	-	-		100.000	Jul 2025	-		-		-	-	-	-
Subtotal			-	-		100.000		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		100.000		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604004F / Advanced Engine Developm ent					Project (Number/Name) 643608 / Advanced Engine Dev									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Advanced Engine Development Efforts																												
Period of Performance																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604004F / Advanced Engine Developm ent	Project (Number/Name) 643608 / Advanced Engine Dev	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Advanced Engine Development Efforts				
Period of Performance	4	2025	4	2026

Note
Spend plan for FY 2025 Congressional Add in coordination. Additional details available in the appropriate forum.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0604005F I NC3 Commercial Development & Prototyping							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	66.406	52.524	67.081	0.000	67.081	-	-	-	-	-	-
640860: Nuclear Command Control and Communications (NC3)	0.000	66.406	52.524	67.081	0.000	67.081	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Funding for NC3 PE under PE 0604858F (Tech Transition), prototyping Project (645351), transitioned to PE 0604005F, Project 640860, beginning in FY23 per Congressional direction.

A. Mission Description and Budget Item Justification

The DAF nuclear enterprise has historically used unique closed systems to provide the high degree of mission assurance and security needed for this mission. Furthermore, the rapid development of the nuclear enterprise required the fielding of the most advanced technology of that time, and in most cases utilized technology that was well ahead of the commercial sector. Today the technological world is very different and in cases such as satellite communications and information technology (IT) systems the commercial sector has raced ahead of government unique systems.

Commercial Leveraging for the nuclear enterprise will explore a range of key technologies that are either commercial, or commercial entwined with government system to quantitatively determine whether these capabilities provide increased resilience, improved reconstitution, or lower cost for applications within the DOD nuclear enterprise. It is not intended to replace baseline systems but rather will be prototypes to augment existing capabilities.

The program will reduce risk in leveraging emerging commercial-based technologies by partnering with industry while providing access to Government analysis, testing and certification capabilities. Prime investments focus on Government-Industry partnerships to influence and militarize emerging commercial capabilities to ensure US competitive advantage in key technology areas. Experimentation efforts will be employed to explore new concepts and their applications in future operating environments within a system-of-systems context taking risks early in the acquisition process to drive a more optimized and efficient acquisition approach significantly reducing overall acquisitions costs. Prototyping of commercially derived technologies into government systems, followed by operational experimentation of the performance and security, will enable these candidate technologies to move into warfighting capability faster and at a lower cost, based on demonstrated low-risk prototypes.

Efforts include a focus on communications, secure data flow, and incorporating commercial approaches for a coarse navigation capability. Communications will focus primarily on satellite links by prototyping terminals that can gain access and switch across multiple commercial and government links from a common terminal. Multiple commercial vendors will be competitively awarded contracts for these prototypes and will work with the government partners to interface with selected platforms across the enterprise. Secure data flow will test various techniques across commercial and DOD partners to smartly utilize multiple communications paths to increase

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025				
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0604005F I NC3 Commercial Development & Prototyping					
resilience, and to integrate with hybrid architectures under USSF and across terrestrial networks. Coarse navigation will explore, test and prototype commercially derived approaches to resiliently provide a very coarse navigation capability to disadvantaged users. This capability does not replace GPS or other advanced precision DOD Position-Navigation-Timing capabilities or approach their exquisite capabilities but will instead provide a back-up option for a coarse capability for a scenario when no other options are available to the DOD user.							
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F, 0605831F, and/or 0606017F.							
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.							
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget		78.799	68.124	67.306	0.000	67.306	
Current President's Budget		66.406	52.524	67.081	0.000	67.081	
Total Adjustments		-12.393	-15.600	-0.225	0.000	-0.225	
• Congressional General Reductions		0.000	0.000				
• Congressional Directed Reductions		-10.000	-15.600				
• Congressional Rescissions		0.000	0.000				
• Congressional Adds		0.000	0.000				
• Congressional Directed Transfers		0.000	0.000				
• Reprogrammings		0.000	0.000				
• SBIR/STTR Transfer		-2.393	0.000				
• Other Adjustments		0.000	0.000	-0.225	0.000	-0.225	
Change Summary Explanation							
FY2026 Current President's Budget decreased from Previous President's Budget due to higher priority Air Force needs.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2024	FY 2025	FY 2026
Title: Commercial Leveraging for the Nuclear Enterprise					66.406	52.524	67.081
Description: Utilizing commercial terminal providers to develop key prototypes, and associated test and experimentation. Includes analysis to assess the hybrid architecture and integration options to the USSF space transport layer and DOD/ commercial terrestrial networks. Includes prototype of coarse navigation capability. Establish partnerships with DOD partners for secure data transport across multiple links. Initiate efforts with the USAF program offices for the key platforms to facilitate integration assessments.							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604005F / NC3 <i>Commercial Development & Prototyping</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2024 Accomplishments: Awarded three prime contracts for communication terminal prototypes and successfully completed preliminary design reviews. Initiated platform integration analyses and detailed integration work with four key platforms. <i>FY 2025 Plans:</i> Funded multiple contracts to perform platform integration assessments with each platform. Started and completed initial integration activities including design and airworthiness on select terminals and platforms. Continue development of compact antenna for size-constrained aircraft. <i>FY 2026 Plans:</i> Initiate delivery and ground test of multi-constellation SATCOM terminals from multiple terminal providers. Initiate full integration of SATCOM terminals on all platforms and conduct operational experimentation on multiple platforms. Continue development of compact antenna for size-constrained aircraft. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 increased compared to FY 2025 by \$14.557 million due to accepting delivery and testing of SATCOM terminals and initiating integration of SATCOM terminals on all platforms.				
Accomplishments/Planned Programs Subtotals		66.406	52.524	67.081
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy For FY24-FY26, the NC3 contractual efforts are within the scope of the Defense Experimentation Using Commercial Space Internet (DEUCSI) solicitation which has an Acquisition Strategy Plan (ASP) approved by AFRL/CC. The ceiling and scope of the ASP are sufficient for execution of the planned funds. The FFRDC analysis is being executed under existing contractual arrangements. Those vehicles have sufficient scope and ceiling to support the NC3 effort. Integration assessments are being executed by the existing contractor(s) aligned with each platform. Each platform PEO has referenced contracts in place, and the NC3 program will transfer funds as needed.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604005F / NC3 Commercial Develop ment & Prototyping				Project (Number/Name) 640860 / Nuclear Command Control and Communications (NC3)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Prototype Terminals Vendor 1	C/CPFF	L3Harris : Salt Lake City, UT	-	10.242	Mar 2024	7.000	Jan 2025	8.000	Nov 2025	-		8.000	-	-	-
Prototype Terminals Vendor 2	C/CPFF	Northrop Grumman : San Diego, CA	-	21.079	Feb 2024	12.500	Nov 2024	8.000	Oct 2025	-		8.000	-	-	-
Prototype Terminals Vendor 3	C/FFP	SES-SD : Reston, VA	-	9.575	Nov 2024	9.569	Nov 2024	-		-		-	-	-	-
Prototype Antenna Vendor 1	C/CPFF	Viasat : Carlsbad, CA	-	4.000	Sep 2024	2.476	Jul 2025	5.000	Oct 2025	-		5.000	-	-	-
Prototype Antenna Vendor 2	C/CPFF	Northrop Grumman : Baltimore, MD	-	-		5.700	May 2025	8.000	Dec 2025	-		8.000	-	-	-
LEO Experimentation	C/FFP	Kuiper Govt Systems : Arlington, VA	-	3.802	May 2024	-		-		-		-	-	-	-
Coarse Navigation Approach 1	C/FFP	Space X : Hawthorne, CA	-	-		-		2.000	Nov 2025	-		2.000	-	-	-
DEUCSI Experimentation	C/CPFF	Lockheed Martin : Fort Worth, TX	-	0.590	Nov 2023	-		-		-		-	-	-	-
Multi Band SATCOM Experimentation	C/CPFF	Intelsat : McLean, VA	-	0.244	Nov 2024	-		-		-		-	-	-	-
Radio System Development and Experimentation	C/CPFF	Northrop Grumman : Herndon, VA	-	2.863	Nov 2023	-		-		-		-	-	-	-
Platform Integration Assessments	MIPR	NSMA : Washington DC	-	5.000	Sep 2024	-		-		-		-	-	-	-
Platform Integration Studies 1	Various	Various : TBD	-	0.080	Apr 2024	-		-		-		-	-	-	-
Platform Integration Sudies 2	C/CPFF	Northrop Grumman : San Diego, CA	-	1.350	May 2024	-		-		-		-	-	-	-
Platform Integration	C/Various	Not specified. : TBD	-	-		9.000	Jun 2025	27.725	Dec 2025	-		27.725	-	-	-
Subtotal			-	58.825		46.245		58.725		-		58.725	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604005F / NC3 Commercial Development & Prototyping						Project (Number/Name) 640860 / Nuclear Command Control and Communications (NC3)			
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Architecture Analysis	MIPR	NAWCAD : Pax River, MD	-	3.553	Nov 2024	-		-		-		-	-	-	-
Architecture Analysis UARC Support	MIPR	GTRI : GA	-	2.000	May 2024	2.653	Feb 2025	2.800	Oct 2025	-		2.800	-	-	-
Scintillation Analysis	MIPR	DTRA : Ft Belvoir, VA	-	0.260	Feb 2024	-		-		-		-	-	-	-
NC3 Support	MIPR	NSA : Ft Meade, MD	-	-		-		0.500	Feb 2026	-		0.500	-	-	-
Subtotal			-	5.813		2.653		3.300		-		3.300	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test and Evaluation	TBD	Various : TBD	-	-		-		2.000	Jan 2026	-		2.000	-	-	-
Subtotal			-	-		-		2.000		-		2.000	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Architecture Analysis FFRDC Support 1	C/CPAF	JHU/APL : Laurel, MD	-	-		1.010	Jan 2025	1.000	Dec 2025	-		1.000	-	-	-
Architecture Analysis FFRDC Support 2	C/CPAF	MIT : Lexington, MA	-	0.250	Dec 2024	-		0.750	Jan 2026	-		0.750	-	-	-
Program Management Administration	Various	Various : TBD	-	1.518	Mar 2024	2.616	Jun 2025	1.306	Mar 2026	-		1.306	-	-	-
Subtotal			-	1.768		3.626		3.056		-		3.056	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604005F / NC3 Commercial Development & Prototyping					Project (Number/Name) 640860 / Nuclear Command Control and Communications (NC3)			
	Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	66.406		52.524		67.081		-		67.081	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604005F / NC3 Commercial Development & Prototyping			Project (Number/Name) 640860 / Nuclear Command Control and Communications (NC3)

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Nuclear Command Control and Communications (NC3)																												
NC3																												
Prototype Terminal Vendor 1																												
Prototype Terminal Vendor 2																												
Prototype Terminal Vendor 3																												
Coarse Navigation																												
Data Transport																												
Platform Integration Assessments																												
Architecture Analysis																												
Prototype Antenna Vendor 1																												
Prototype Antenna Vendor 2																												
Platform Integration																												
Flight Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604005F / NC3 Commercial Development & Prototyping	Project (Number/Name) 640860 / Nuclear Command Control and Communications (NC3)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Nuclear Command Control and Communications (NC3)</i>				
NC3	1	2024	4	2026
Prototype Terminal Vendor 1	2	2024	4	2026
Prototype Terminal Vendor 2	2	2024	4	2026
Prototype Terminal Vendor 3	1	2025	4	2025
Coarse Navigation	4	2024	3	2025
Data Transport	1	2024	4	2024
Platform Integration Assessments	4	2024	2	2025
Architecture Analysis	2	2024	3	2026
Prototype Antenna Vendor 1	4	2024	4	2026
Prototype Antenna Vendor 2	3	2025	4	2026
Platform Integration	3	2025	4	2026
Flight Testing	1	2026	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0604007F I E-7							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	849.565	607.413	199.676	0.000	199.676	-	-	-	-	-	-
644413: E-7A	0.000	849.565	607.413	199.676	0.000	199.676	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funds the E-7 program. The E-7 program replaces the unsustainable E-3 Airborne Warning and Control System (AWACS). The E-3 AWACS, first fielded in the 1970s, is at the end of its service life, and costly to maintain. The E-7 will serve as the USAF's principal airborne platform for airborne command and control and airborne moving target indicator, providing a reliable, persistent critical node in the long range kill chain for the Joint Force Air Component Commander (JFACC).

The E-7 will provide increased capabilities to the USAF and the Joint Services to include the ability to detect and track highly maneuverable, small radar cross-section airborne targets (modern and emerging threats), the ability to real-time process and create a precise air picture, and the ability to battle manage (e.g. command and control) under a wide range of operational conditions.

The E-7A is a highly modified Airborne Battle Management and Command and Control aircraft integrating a Boeing 737-700 Next Generation (737NG) airframe with a reinforced fuselage Section 46, a Northrop Grumman Multi-Role Electronically Scanned Array (MESA) Radar mounted on the aircraft's Section 46, and two 180-kVA generators added to commercial CFM-56 engines mounted beneath each wing. The E-7 will provide a reliable, operationally available, maintainable, and sustainable capability.

E-7A consists of completing end items and modification components for aircraft to support test and evaluation; hardware and software modernization development efforts to ensure compliance with US cybersecurity and program protection standards; development efforts to ensure navigation and communication systems comply with GPS M-Code and Narrowband SATCOM mandates; development efforts to design and build flight planning terminals, deployable mission support systems, and mission crew trainers; design and build-out contractor and government System Integration Laboratories supporting development, integration, and test activities; and provide analysis and products supporting future requirements and airworthiness certification.

E-7 Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR): C2ISR system improvements investigate and develop future capabilities of the E-7 weapon system. These efforts also include but are not limited to advanced sensors, advanced communications, self-protection, enhanced cyber protection, the staffing and studying of cooperative development capabilities, and obsolescence resolution to ensure that the E-7 successfully integrates with joint and coalition forces in a net-centric environment. C2ISR primarily supports pre-systems acquisition in the areas of materiel solution analysis and technology development. This is accomplished by prototyping and demonstrating capabilities required by the warfighter. C2ISR also supports an analytical comparison of suitability, life-cycle cost, and system capabilities of alternative materiel solutions beyond the current E-7A that satisfy an established capability need identified in a User Requirements Document.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604007F I E-7				
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, or 0606398F. In FY 2024 \$4.970M was expended for civilian pay expenses in this program element, and in FY 2025 \$8.059M is forecast for civilian pay expenses in this program element.						
The FY 2026 cost of the E-7A Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		681.039	418.513	297.334	0.000	297.334
Current President's Budget		849.565	607.413	199.676	0.000	199.676
Total Adjustments		168.526	188.900	-97.658	0.000	-97.658
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-11.100			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		200.000	200.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-31.416	0.000			
• Other Adjustments		-0.058	0.000	-97.658	0.000	-97.658
Change Summary Explanation						
FY2024 reduced by \$31.416M for SBIR; reduced by \$0.058M for FFRDC reduction.						
FY2025 reduced by \$11.1M for Congressional Reduction for Program Support Cost unjustified growth.						
FY2026 reduced by \$97.658 Adjustment to the E-7A program for higher DoD priorities.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: E-7A				849.565	601.413	199.576
Description: Funds will be used to continue E-7A consisting of completing end items and modification components for aircraft to support test and evaluation; hardware and software modernization development efforts to ensure compliance with US cybersecurity and program protection standards; development efforts to ensure navigation and communication systems comply with GPS M-Code and Narrowband SATCOM mandates.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604007F / E-7		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2025 Plans: Continues E-7A effort including the following tasks: - continue prototyping end items and modification components for aircraft to support test and evaluation - hardware and software modernization development efforts to ensure compliance with US cybersecurity and program protection standards - development efforts to ensure navigation and communication systems comply with GPS M-Code and Narrowband SATCOM mandates - design and build mission crew trainer - design and build-out contractor and government System Integration Laboratories supporting development, integration, and test activities - provide analysis and products supporting future requirements and airworthiness certification - begin to integrate E-7A capabilities into the 737NG aircrafts. Continues to conduct laboratory System Maturity and Capability Demonstrations, providing basis for follow-on production/fielding decisions, continue analysis, and assemble FAA and Military airworthiness certification packages. FY 2026 Plans: -Will develop and implement orderly termination of E-7A program. -Will plan and execute cost-effective discontinuation of major item builds and shutdown of Prime and Subcontractor workforces. -Will properly dispose of commercial "green" jets. FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to program termination.				
Title: E-7 C2ISR Description: E-7 C2ISR efforts include but are not limited to investigation, development, and analysis of advanced sensors, advanced communications, self-protection, enhanced cyber protection, the staffing and studying of cooperative development capabilities, and obsolescence resolution to ensure that the E-7 successfully integrates with joint and coalition forces in a net-centric environment. FY 2025 Plans: Conducts engineering studies to determine required modifications and associated costs to support risk reduction activities for program planning. FY 2026 Plans:		0.000	6.000	0.100

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604007F I E-7							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Will investigate potential commercial "green" jet re-use within DoD, US Government, and foreign partners.												
FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to program termination.												
Accomplishments/Planned Programs Subtotals										849.565	607.413	199.676
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 04 0207448F: C2ISR Tactical Data Link	-	3.500	-	-	-	-	-	-	-	-	-	
• APAF 04 E00700: E-7 AP	-	200.000	-	-	-	-	-	-	-	-	-	
Remarks												
E. Acquisition Strategy												
The Service Acquisition Executive (SAE) designated the E-7A program a Middle Tier of Acquisition (MTA) Rapid Prototyping effort in February 2023. A sole source undefinitized contract action (UCA) was awarded to Boeing in February 2023 and Definitized in August 2024.												
The Milestone Decision Authority for the E-7A program is the Assistant Secretary of the Air Force for Acquisition, Technology, and Logistics. Program management for the E-7A program is under direction of PEO Intelligence, Surveillance, Reconnaissance (ISR) and Special Operations Forces (SOF) located at Wright-Patterson AFB, OH. The Air Force Life Cycle Management Center located at Wright-Patterson AFB, OH is the contracting authority for the E-7A program. AFLCMC provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604007F / E-7				Project (Number/Name) 644413 / E-7A					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
E-7A	SS/CPIF	The Boeing Company : TUKWILA, WA	-	808.885	Feb 2024	542.029	Feb 2025	154.381	Oct 2025	-		154.381	-	-	-
E-7A Platform One	Various	Various : TBD	-	0.210	Aug 2024	5.000	Aug 2025	0.918	Aug 2026	-		0.918	-	-	-
E-7 C2ISR	C/TBD	Not specified. : TBD	-	-		6.000	Jul 2025	0.100	Jul 2026	-		0.100	-	-	-
Subtotal			-	809.095		553.029		155.399		-		155.399	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
E-7A Organic Software Support	PO	76th SWEG : Tinker, OK	-	5.243	Jan 2024	6.903	Jan 2025	0.907	Jan 2026	-		0.907	-	-	-
E-7A Government Furnished Equipment (GFE)	Various	Various : TBD	-	0.232	Jan 2024	1.004	Jan 2025	1.000	Jan 2026	-		1.000	-	-	-
Subtotal			-	5.475		7.907		1.907		-		1.907	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
E-7A Test	Various	Various : TBD	-	2.903	Jan 2024	5.165	Jan 2025	0.970	Jan 2026	-		0.970	-	-	-
Subtotal			-	2.903		5.165		0.970		-		0.970	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs (PSC)	Various	AWACS & Wedgetail PMO : Hanscom AFB, MA	-	32.092	Jan 2024	41.312	Oct 2024	41.400	Oct 2025	-		41.400	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604007F / E-7				Project (Number/Name) 644413 / E-7A					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Subtotal			-	32.092		41.312		41.400		-		41.400	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	849.565		607.413		199.676		-		199.676	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0604007F / E-7					644413 / E-7A			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
E-7A																												
E-7A Development																												
E-7 C2ISR																												
E-7 C2ISR																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604007F / E-7	Project (Number/Name) 644413 / E-7A

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
E-7A				
E-7A Development	1	2024	4	2026
E-7 C2ISR				
E-7 C2ISR	3	2025	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604009F / AFWERX

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	97.250	62.580	18.499	0.000	18.499	-	-	-	-	-	-
640856: <i>AFWERX Operations and Support</i>	0.000	12.988	14.210	12.648	0.000	12.648	-	-	-	-	-	-
640858: <i>AFWERX Prime</i>	0.000	84.262	48.370	5.851	0.000	5.851	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The AFWERX mission is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), Ventures (the dual use expanded technology base), and Prime (technology transitions) to scale and accelerate capability. Funding in this project supports AFWERX research and development, innovation hubs and infrastructure, information technology, public affairs, and marketing. SBIR/STTR execution also benefits from Operations & Support funding. The Spark mission is to inspire and enable Airmen and Guardians to harness their collective talent and ingenuity. Spark connects innovators using virtual collaboration, immersive training, and networking opportunities to inspire ideas and cultivate a more lethal force. By connecting operators closer to acquisition processes, Spark provides both a voice and a conduit to accelerate powerful ideas into game-changing operational realities. This focus helps guide technologies through transition across the valley from idea to scaled and sustained capability. The AFWERX Program reduces risk in emerging technology markets by partnering with industries through Prime investments and providing access to Government analysis, testing and certification capabilities. Prime investments focus on Government-Industry partnerships to influence and militarize emerging commercial capabilities to ensure US competitive advantage in key technology areas.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Technology Transfer capabilities. 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 2026, \$7.878 million is budgeted in this program for 37 direct Full-Time Equivalent (FTE) civilians.

This program element may include necessary expenses to support the operation and maintenance of facilities to manage, execute, and deliver science and technology capabilities.

Beginning in FY 2024, funding for Program 0604317F, Technology Transfer, Project 646030, AFWERX, and Project 64317A, Technology Transfer Add, were transferred to Program 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support per Congressional direction.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604009F I AFWERX				
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		83.336	20.580	20.822	0.000	20.822
Current President's Budget		97.250	62.580	18.499	0.000	18.499
Total Adjustments		13.914	42.000	-2.323	0.000	-2.323
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-3.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		20.000	42.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-3.086	0.000			
• Other Adjustments		0.000	0.000	-2.323	0.000	-2.323
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 640858: AFWERX Prime						
Congressional Add: Program Increase-Agility Prime						
Congressional Add: Program Increase-Electrification of fixed wing aircraft						
Congressional Add: Program Increase-Autonomy Prime						
Congressional Add: Program Increase-Maritime autonomous forward area refueling point						
Congressional Add: Program Increase-Mass-produced UAS						
Congressional Add: Program Increase-Rapid operational innovation detachment						
Congressional Add Subtotals for Project: 640858						
Congressional Add Totals for all Projects						
Change Summary Explanation						
The decrease in FY 2026 is due to programmatic adjustments in this effort. This reduction reflects a strategic realignment to optimize core research and operational areas and improve resource efficiency.						
The FY 2026 request was reduced by \$1.12 million for civilian personnel to optimize the workforce in compliance with Executive Order 14210, "Implementing the President's Department of Government Efficiency Optimization Initiative. "						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604009F / AFWERX				Project (Number/Name) 640856 / AFWERX Operations and Support			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640856: AFWERX Operations and Support	0.000	12.988	14.210	12.648	0.000	12.648	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AFWERX mission is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), AFVentures (the dual-use expanded technology base), and Prime (technology transitions) to scale and accelerate the capability. Funding in this project supports AFWERX research and development, innovation hubs, and information technology, public affairs, and marketing. The Spark mission is to inspire and enable Airmen and Guardians to unleash their collective talent and ingenuity. Spark connects innovators using virtual collaboration, immersive training, and networking opportunities to inspire ideas and cultivate a more lethal force. By connecting operators closer to acquisition processes, Spark provides both a voice and a conduit to accelerate powerful ideas into game-changing operational realities. This focus helps guide technologies through transition across the valley from idea to scaled and sustained capability.

Beginning in FY 2024, Program 0604317F, Technology Transfer, Project 646030, AFWERX and Project 64317A, Technology Transfer Add were transferred to Program 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: AFWERX	12.988	14.210	12.648
Description: Transition affordable and accelerated capabilities by teaming innovative technology developers with Airmen and Guardian talent. Support core operations for innovation hubs, IT and infrastructure, and benefit SBIR/STTR execution (in PE 0605502F) for better Industry engagement and leveraging dual-use technology and commercialization efforts.			
FY 2025 Plans: - Continue development and sustainment of the Acquisition Workforce, organizational capabilities, and Spark activities. - Spark funding delivers development and fielding of Airmen and Guardian centric program management tools to connect the innovation ecosystem.			
FY 2026 Plans: - Continue development and sustainment of the Acquisition Workforce, organizational capabilities, and Spark activities. - Spark funding delivers development and fielding of Airmen and Guardian centric program management tools to connect the innovation ecosystem.			
FY 2025 to FY 2026 Increase/Decrease Statement: - FY 2026 reduced by \$1.562 million from FY 2025 due to programmatic adjustments in this effort.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604009F / AFWERX	Project (Number/Name) 640856 / AFWERX Operations and Support		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- This reduction reflects a strategic realignment to optimize core research and operational areas and improve resource efficiency.				
Accomplishments/Planned Programs Subtotals		12.988	14.210	12.648
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
AFWERX Organizational capabilities and Spark activities are awarded through various competitive contract vehicles as appropriate.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604009F / AFWERX				Project (Number/Name) 640856 / AFWERX Operations and Support					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
AFWERX Operations and Support	Various	Various : Various	-	1.000	Aug 2025	6.010	Aug 2026	4.770	Aug 2027	-		4.770	-	-	-
Subtotal			-	1.000		6.010		4.770		-		4.770	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Acquisition Workforce	Allot	Various : Various	-	11.988		8.200		7.878		-		7.878	-	-	-
Subtotal			-	11.988		8.200		7.878		-		7.878	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	12.988		14.210		12.648		-		12.648	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 4					PE 0604009F / AFWERX			640856 / AFWERX Operations and Support				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
AFWERX Core Operations and Support																												
Core Operations and Support																												
Acquisition Workforce																												
Acquisition Workforce																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604009F / AFWERX	Project (Number/Name) 640856 / AFWERX Operations and Support	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AFWERX Core Operations and Support				
Core Operations and Support	1	2024	4	2030
Acquisition Workforce				
Acquisition Workforce	1	2024	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604009F / AFWERX				Project (Number/Name) 640858 / AFWERX Prime			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640858: AFWERX Prime	0.000	84.262	48.370	5.851	0.000	5.851	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

AFWERX Prime leverages an acquisition approach that uses government specific resources to reduce risk in emerging technology markets and enables transition into DoD capabilities. AFWERX Prime is dedicated to discovering emerging commercial technologies with the potential for use as military capabilities. AFWERX Prime partners Air Force resources with investors, commercial industry, non-traditional contractors, academic institutions, and inter-agency organizations to discover, develop, mature, test and transition dual use technologies. AFWERX Prime employs novel and rapid acquisition methodologies to facilitate accelerated, cost-effective, agile development of commercial and military capabilities. The technologies targeted by AFWERX include hybrid-electric powered Vertical and Short Take Off and Landing Aircraft; Scalable Aircraft Autonomy; Autonomous Logistics Systems; Expeditionary Combat Support Systems; Advanced Manufacturing; sUAS and Counter-sUAS; enhanced, low cost, distributed, scalable and digital Manufacturing and an AFWERX Autonomy Proving Ground.

AFWERX Prime fosters the development of dual-use technologies through collaborative efforts and partnerships with investors, industry, interagency, and international partners for accelerated, affordable, and agile commercial and military capability. AFWERX Prime endeavors to strategically leverage commercial investments in technologies that facilitate mobility and sustainment within benign or contested environments to enable agile, cost-effective distributed logistics, humanitarian operations, personnel transport, disaster response initiatives, and enhanced communications capabilities. AFWERX Prime is pursuing efforts to assist in building robust, cost-effective capacity for swift evaluation, iteration, and maturation of emerging mission and applied autonomy technologies to deliver enhanced autonomy to assist in meeting the requirements of the Department of Defense (DoD).

Prime technical focus areas, such as Agile Support, Autonomy Focus, and Manufacturing will leverage commercial technology and investment resulting in the advanced, agile, and accelerated deployment of commercial and military capabilities that bolster national security and domestic technological dominance.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: AFWERX Prime	64.994	6.370	5.851
Description: Prime executes efforts to explore and transition emerging dual-use technologies under the Prime acquisition approach. The technologies targeted by AFWERX include hybrid-electric powered Vertical and Short Take Off and Landing Aircraft; Scalable Aircraft Autonomy; Autonomous Logistics Systems; Expeditionary Combat Support Systems; Advanced Manufacturing; sUAS & Counter-sUAS; enhanced, low cost, distributed, scalable and digital Manufacturing, and an AFWERX Autonomy Proving Ground.			
FY 2025 Plans: - Continue government test support and personnel support for existing program contract periods of performance across the AFWERX Prime portfolio. - Continue Autonomy Prime proving ground evaluations in collaboration with industry for periods of performance remaining.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604009F / AFWERX		Project (Number/Name) 640858 / AFWERX Prime	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
- Complete Autonomy Prime evaluation efforts for technology risk reduction with multiple manufacturers for commercial and operations assessment. - Continue remaining operational evaluations for Agility Prime, leveraging planned commercial certifications and potential initial service use cases. - Transferring relevant technologies from Agility Prime to Agile Support Prime - Closing out remaining software integration sprints for Integration Prime efforts for addressing mission thread gaps. - Complete Integration Prime capability evaluation sprints after remaining periods of performance. FY 2026 Plans: - Continue government test support and personnel support for existing program contract periods of performance across the AFWERX Prime portfolio. - Continue remaining operational evaluations for Agile Support Prime, leveraging planned commercial certifications and potential initial service use cases. - Continue Autonomy Prime proving ground evaluations in collaboration with industry for periods of performance remaining. - Continue support for manufacturing challenge workshops to scope problems and the solution landscape for high priority focus areas including manufacturing. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 decreased compared to FY 2025 by \$0.519 million due to programmatic adjustments in this effort. This reduction reflects a strategic realignment to optimize core research and operational areas and improve resource efficiency.					
Accomplishments/Planned Programs Subtotals			64.994	6.370	5.851
			FY 2024	FY 2025	
Congressional Add: Program Increase-Agility Prime			19.268	20.000	
FY 2024 Accomplishments: Conduct congressionally directed effort					
FY 2025 Plans: Conduct Congressionally directed effort					
Congressional Add: Program Increase-Electrification of fixed wing aircraft			-	5.000	
FY 2025 Plans: Conduct Congressionally directed effort					
Congressional Add: Program Increase-Autonomy Prime			-	2.500	
FY 2025 Plans: Conduct Congressionally directed effort					
Congressional Add: Program Increase-Maritime autonomous forward area refueling point			-	5.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604009F / AFWERX	Project (Number/Name) 640858 / AFWERX Prime

	FY 2024	FY 2025
FY 2025 Plans: Conduct Congressionally directed effort		
Congressional Add: Program Increase-Mass-produced UAS	-	2.000
FY 2025 Plans: Conduct Congressionally directed effort		
Congressional Add: Program Increase-Rapid operational innovation detachment	-	7.500
FY 2025 Plans: Conduct Congressionally directed effort		
Congressional Adds Subtotals	19.268	42.000

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

N/A

Remarks

D. Acquisition Strategy

AFWERX Prime effort will proceed along the following path: 1) investigate details regarding potential commercial markets; 2) identify technologies that are likely to result in successful prototypes and support future DAF capability needs and Operational Imperatives ; 3) create collaborative test plans potentially offering test assets and expertise; 4) leverage this campaign for near-term applicability and suitability as well as preparation for procurement of hardware, software, data, or services. The intent is to accelerate learning to enable early adoption, procurement, and fielding.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604009F / AFWERX						Project (Number/Name) 640858 / AFWERX Prime			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Agility Prime AOI 1 Performer A	C/FFP	Various : Various	-	5.000	Dec 2023	-		-		-		-	-	-	-
Agility Prime AOI 1 Performer B	C/FFP	Various : Various	-	1.000	Feb 2024	-		-		-		-	-	-	-
Agility Prime AOI 2 Performer A	C/FFP	Various : Various	-	5.000	Dec 2023	-		-		-		-	-	-	-
Agility Prime AOI 3 Performer A	C/FFP	Various : Various	-	3.500	May 2024	-		-		-		-	-	-	-
Agility Prime AOI 3 Performer B	C/FFP	Various : Various	-	3.500	May 2024	-		-		-		-	-	-	-
Autonomy Prime Line of Effort A	C/FFP	Various : Various	-	4.000	Dec 2023	-		-		-		-	-	-	-
Autonomy Prime Line of Effort B	C/FFP	Various : Various	-	4.000	Feb 2024	-		-		-		-	-	-	-
Autonomy Prime Line of Effort C	C/FFP	Various : Various	-	3.000	May 2024	-		-		-		-	-	-	-
Autonomy Prime Line of Effort D	C/FFP	Various : Various	-	4.000	Dec 2023	-		-		-		-	-	-	-
Integration Prime Capability Sprint A	C/FFP	Various : Various	-	3.500	Jan 2024	-		-		-		-	-	-	-
Integration Prime Capability Sprint B	C/FFP	Various : Various	-	3.500	Apr 2024	-		-		-		-	-	-	-
Integration Prime Capability Sprint C	C/FFP	Various : Various	-	3.500	Jul 2024	-		-		-		-	-	-	-
Integration Prime Open Architecture	C/FFP	Various : Various	-	3.000	Dec 2023	-		-		-		-	-	-	-
Congressional Interest Item-Agility Prime	C/FFP	Various : Various	-	19.268	Sep 2024	20.000		-		-		-	-	-	-
Congressional Interest Item-Autonomy Prime	C/FFP	Various : Various	-	-		2.500		-		-		-	-	-	-
Congressional Interest Item-electrification of fixed wing aircraft	C/FFP	Various : Various	-	-		5.000		-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604009F / AFWERX				Project (Number/Name) 640858 / AFWERX Prime					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Congressional Interest Item-maritime autonomous forward area refueling point	C/FFP	Various : Various	-	-		5.000		-		-		-	-	-	-
Congressional Interest Item-rapid operational innovation detachment	C/FFP	Various : Various	-	-		7.500		-		-		-	-	-	-
Congressional Interest Item-mass produced UAS	C/FFP	Various : Various	-	-		2.000		-		-		-	-	-	-
Subtotal			-	65.768		42.000		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Modeling and Analytics Support	MIPR	Various : Various	-	1.000	Nov 2023	-		-		-		-	-	-	-
Government Test Support	MIPR	Various : Various	-	5.000	Dec 2023	2.000	Dec 2024	2.092	Dec 2025	-		2.092	-	-	-
Airworthiness and Test Support	Various	Various : Various	-	2.000	Nov 2023	1.500	Nov 2024	-		-		-	-	-	-
Acquisition Workforce	Allot	Various : Various	-	-		-		3.759	Oct 2025	-		3.759	-	-	-
Subtotal			-	8.000		3.500		5.851		-		5.851	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test Integration	Various	Various : Various	-	5.000	Feb 2024	1.370	Dec 2024	-		-		-	-	-	-
Autonomy Test Capabilities	Reqn	Various : Various	-	4.848	Dec 2023	-		-		-		-	-	-	-
Subtotal			-	9.848		1.370		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604009F / AFWERX						Project (Number/Name) 640858 / AFWERX Prime			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
AFWERX Prime Management PMA	Various	Various : Various	-	0.646	Dec 2024	1.500	Nov 2024	-		-		-	-	-	-
Subtotal			-	0.646		1.500		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	84.262		48.370		5.851		-		5.851	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 4								PE 0604009F / AFWERX								640858 / AFWERX Prime			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
AFWERX Prime Product Development																												
Federal Aviation Administration Certification																												
Bed-down																												
Autonomy - Proving Ground Operations																												
Software Integration Sprints																												
Test and Evaluation/Support Personnel																												
Acquisition Workforce																												
Acquisition Workforce																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604009F / AFWERX	Project (Number/Name) 640858 / AFWERX Prime	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AFWERX Prime Product Development				
Federal Aviation Administration Certification	4	2024	4	2024
Bed-down	1	2024	4	2024
Autonomy - Proving Ground Operations	1	2024	4	2024
Software Integration Sprints	2	2024	4	2024
Test and Evaluation/Support Personnel	1	2024	4	2027
Acquisition Workforce				
Acquisition Workforce	1	2025	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604010F / <i>Next Generation Adaptive Propulsion</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	573.832	507.337	330.270	0.000	330.270	-	-	-	-	-	-
640864: <i>Next Generation Adaptive Propulsion (NGAP)</i>	0.000	573.832	507.337	330.270	0.000	330.270	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Transfers: In FY 2024, the Next Generation Adaptive Propulsion (NGAP) effort was transferred from PE 0604004F, Advanced Engine Development to this new PE 0604010F, NGAP to comply with the 2024 Appropriations Bill and accompanying Joint Explanatory Statement language establishing the new budget line and directing the DAF maintain a separate budget line for the NGAP effort.

A. Mission Description and Budget Item Justification

The Next Generation Adaptive Propulsion (NGAP) program builds upon advanced materials, technologies and manufacturing processes matured under the Adaptive Engine Transition Program (which ended in FY24) to enhance adaptive propulsion system performance and size scalability key to enabling future aircraft capabilities. Embedded adaptive propulsion systems combine the fuel efficiency of high-bypass turbofan engines used by commercial airlines with the performance demanded of military fighter engines with augmenters. Increased fuel efficiency reduces energy demand and aerial tanker dependency while increasing platform range and or time on station. During peacetime, these benefits translate to reduced aerial tanker dependency during exercises and a choice between increased aircrew readiness or cost savings due to the less fuel needed. NGAP prototyping will validate the performance and maturity of its enabling advanced technologies, platform agnostic engine architectures and designs, and manufacturing processes through prototype testing. NGAP will also drive digital transformation of the propulsion industrial base to reduce future integration risks while shortening development timelines.

Prior to FY 2024, the NGAP program was reported in PE 0604004F, Advanced Engine Development, Project 643608, Advanced Engine Development.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$5.669 million was expended for civilian pay expenses in this program element, and in FY 2025 \$7.401 million is forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604010F I Next Generation Adaptive Propulsion				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	0.000	0.000	0.000	0.000	0.000	
Current President's Budget	573.832	507.337	330.270	0.000	330.270	
Total Adjustments	573.832	507.337	330.270	0.000	330.270	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	-21.520	0.000				
• Other Adjustments	595.352	507.337	330.270	0.000	330.270	
Change Summary Explanation						
Other Adjustments: Next Generation Adaptive Propulsion (NGAP) FY 2024, FY 2025 and FY 2026 funding transferred from PE 0604004F, Advanced Engine Development to this new PE 0604010F, NGAP to comply with the 2024 Appropriations Bill and accompanying Joint Explanatory Statement language establishing the new budget line and directing the DAF maintain a separate budget line for the NGAP effort.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Next Generational Adaptive Propulsion (NGAP)				573.832	507.337	330.270
Description: The NGAP program is designing multiple adaptive engine prototypes and will complete component rig assessments; fabricate, assemble, test and evaluate prototype(s); characterize materials, and inform digital improvements to model-based manufacturing processes. Prototype engine assessments at sea-level, altitude, and across multiple power settings will provide data to quantify the capabilities, validate engineering models as well as the maturity of new component technologies, and reduce risk in areas such as reliability and supportability. The program will also demonstrate the scalability of an embedded adaptive propulsion system with the versatility for an augmented future fighter or non-augmented for other mission aircraft operating across various mission threads.						
FY 2025 Plans:						
- Both contractors successfully completed Digital Detailed Design Reviews of their prototype engine designs.						
- Awarded delivery orders for prototype fabrication and assembly activities.						
- Procuring materiel, fabricating components, conducting component rig tests and planning for assembly.						
FY 2026 Plans:						
- Continue prototype fabrication, component rig testing and assembly planning.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604010F / <i>Next Generation Adaptive Propulsion</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Conduct Assembly Readiness Reviews assessing each contractor's preparedness to proceed with build and assess test risk of their prototype engine. - Complete preparations for Test Readiness Review. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding decreased compared to FY 2025 by \$177.067 million due to transition from Detailed Design to Prototype fabrication and assembly activities, and programmatic adjustments within the RDT&E portfolio to improve resource efficiency.				
Accomplishments/Planned Programs Subtotals		573.832	507.337	330.270
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy In fourth quarter FY2022 new indefinite delivery, indefinite quantity (IDIQ) contracts to complete prototype detailed design and prototyping were awarded to General Electric (GE), Pratt & Whitney (PW), Boeing, Lockheed Martin (LM), and Northrop Grumman (NG). The IDIQ contracts include digital transformation requirements, scope to complete prototype detailed design, prototype fabrication, prototype assembly, and execute prototype engine testing, digital Weapon System integration activity to reduce technology transition risk, and a contracting approach that enhances the program's acquisition agility. Competitive delivery orders for each phase; performance in current phase determines progression to next phase. Competitively awarded orders and options under the IDIQ contract enable work to be tailored to accommodate available funding, provide continued competitive incentives to contractors, and enable rapid and efficient execution of funds. The government agency responsible for managing this program is the Air Force Life Cycle Management Center, Propulsion Directorate, Wright-Patterson Air Force Base, Ohio.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604010F / Next Generation Adaptive P ropulsion				Project (Number/Name) 640864 / Next Generation Adaptive Propulsion (NGAP)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Next Generation Adaptive Propulsion (Detailed Design & Prototyping) - GE	C/Various	GE : Evendale, OH	-	271.227	Oct 2023	245.086	Oct 2024	149.580	Oct 2025	-		149.580	-	-	-
Next Generation Adaptive Propulsion (Detailed Design & Prototyping) -PW	C/Various	PW : Hartford, CT	-	265.566	Oct 2023	230.480	Oct 2024	149.580	Oct 2025	-		149.580	-	-	-
Next Generation Adaptive Propulsion (Detailed Design & Prototyping) - Boeing	C/Various	Boeing : St Louis, MO	-	5.617	Oct 2023	4.866	Oct 2024	5.000	Oct 2025	-		5.000	-	-	-
Next Generation Adaptive Propulsion (Detailed Design & Prototyping) - LM	C/Various	LM : Ft Worth, TX	-	5.689	Oct 2023	5.280	Oct 2024	5.000	Oct 2025	-		5.000	-	-	-
Next Generation Adaptive Propulsion (Detailed Design & Prototyping) -NG	C/Various	NG : Palmdale, CA	-	6.066	Oct 2023	-		-		-		-	-	-	-
Subtotal			-	554.165		485.712		309.160		-		309.160	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Next Generation Adaptive Propulsion - Program Management Support	Various	Various : TBD	-	19.667	Dec 2023	21.625	Dec 2024	21.110	Dec 2025	-		21.110	-	-	-
Subtotal			-	19.667		21.625		21.110		-		21.110	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	573.832		507.337		330.270		-		330.270	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force							Date: June 2025			
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604010F / Next Generation Adaptive P ropulsion		Project (Number/Name) 640864 / Next Generation Adaptive Propulsion (NGAP)				
	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks GE - General Electric PW - Pratt & Whitney LM - Lockheed Martin NG - Northrop Grumman										

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 4					PE 0604010F / Next Generation Adaptive P ropulsion					640864 / Next Generation Adaptive Propulsion (NGAP)									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Next Generation Adaptive Propulsion																												
Adaptive Prototyping Planning & Detailed Design																												
Prototype Fabrication, Assembly and Test																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604010F / Next Generation Adaptive Propulsion	Project (Number/Name) 640864 / Next Generation Adaptive Propulsion (NGAP)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Next Generation Adaptive Propulsion				
Adaptive Prototyping Planning & Detailed Design	1	2024	2	2025
Prototype Fabrication, Assembly and Test	2	2025	2	2030

Note

The Next Generation Adaptive Propulsion effort consists of six phases: initial design, preliminary design, adaptive prototype planning, detailed design, engine fabrication, and engine assessments. Initial and preliminary activities were completed under PE 0604004F, Advanced Engine Development, Project: 643608, Advanced Engine Development in 1Q FY2023. Prototype Detailed Design activities were completed under PE 064010F, Next Generation Adaptive Propulsion in 2Q FY 2025. Delivery orders for prototype fabrication, assembly and test awarded in 2Q FY 2025.

Program deliverables include military adaptive engine detailed design parameters and models; engine hardware (plus spare parts); matured technologies; major rig assessment data (controls, combustor, etc.); program reviews; and technology, affordability and sustainment studies for capability enabling an embedded propulsion system that can be augmented for future fighters or non-augmented for other aircraft operating across various mission threads.

Additional details can be provided in the appropriate forum.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0604015F / <i>Long Range Strike - Bomber</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	2,877.844	2,654.073	2,347.225	0.000	2,347.225	-	-	-	-	-	-
643308: <i>B-21 Development</i>	0.000	2,636.649	2,266.370	1,589.908	0.000	1,589.908	-	-	-	-	-	-
644044: <i>B-21 Modernization</i>	0.000	241.195	387.703	757.317	0.000	757.317	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. Program overview provided below.

The Long Range Strike - Bomber (B-21 Raider) is crucial to the nuclear modernization plan, forming the backbone of the Nation's future bomber force, providing both conventional and nuclear capability. The B-21 platform provides range, access, and payload to go anywhere needed, with the weapons required to deter and win our nation's wars. Its open system architecture will enable rapid integration of future capabilities, keeping the platform relevant and effective as the threat environment evolves. The Air Force requires a minimum of 100 B-21s as part of the long-term bomber force. The Engineering and Manufacturing Development (EMD) contract was awarded in 2015, followed by a Critical Design Review (CDR) completed in 2018. Test aircraft are executing the B-21 flight test campaign and an approved Milestone C decision with all statutory and regulatory documentation was completed in 2023. Subsequently, the first two production lots have been awarded. B-21 aircraft will be delivered to operational bases in the mid-2020s.

The FY2026 request for the Long Range Strike - Bomber (B-21 Raider) includes 2,347.225 million of discretionary and 2,391.920 million of mandatory (reconciliation) for a total of 4,739.145 million. The mandatory funds expansion of capacity of B-21. Further information for this reconciliation request is provided in Section 20008 (Nuclear) of the Reconciliation Exhibit.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604015F I Long Range Strike - Bomber			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	2,984.143	2,654.073	2,051.427	0.000	2,051.427
Current President's Budget	2,877.844	2,654.073	2,347.225	0.000	2,347.225
Total Adjustments	-106.299	0.000	295.798	0.000	295.798
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-106.299	0.000			
• Other Adjustments	0.000	0.000	295.798	0.000	295.798
Change Summary Explanation					
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber				Project (Number/Name) 643308 / B-21 Development			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
643308: B-21 Development	0.000	2,636.649	2,266.370	1,589.908	0.000	1,589.908	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. Program overview provided below.

The Long Range Strike - Bomber (B-21 Raider) is crucial to the nuclear modernization plan, forming the backbone of the Nation's future bomber force, providing both conventional and nuclear capability. The B-21 platform provides range, access, and payload to go anywhere needed, with the weapons required to deter and win our nation's wars. Its open system architecture will enable rapid integration of future capabilities, keeping the platform relevant and effective as the threat environment evolves. The Air Force requires a minimum of 100 B-21s as part of the long-term bomber force. The Engineering and Manufacturing Development (EMD) contract was awarded in 2015, followed by a Critical Design Review (CDR) completed in 2018. Test aircraft are executing the B-21 flight test campaign and an approved Milestone C decision with all statutory and regulatory documentation was completed in 2023. Subsequently, the first two production lots have been awarded. B-21 aircraft will be delivered to operational bases in the mid-2020s.

The FY2026 request for the B-21 Development BPAC includes \$1,589.908M of discretionary and \$2,391.920M of mandatory/reconciliation (\$1,721.920 enhancement & \$670M transfer from discretionary) for a total of \$3,981.828M. The enhancement funds expansion of capacity of B-21. Further information for this reconciliation request is provided in Section 20008 of the Reconciliation Exhibit.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Long Range Strike Bomber (B-21) Development	2,636.649	2,266.370	1,589.908
Description: The B-21 Raider will be a dual-capable penetrating strike stealth bomber capable of delivering both conventional and nuclear munitions. Designed to operate in tomorrow's high-end threat environment, the B-21 will play a critical role in ensuring America's enduring airpower capability.			
FY 2025 Plans: Continue test aircraft build, scaling manufacturing, infrastructure and capacity across the industrial base, and execution of test and evaluation activities. This funding will keep B-21 Raider development on track in support of the program's continued transition through low-rate initial production and fielding.			
FY 2026 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber				Project (Number/Name) 643308 / B-21 Development				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Continue test aircraft build, scaling manufacturing, infrastructure and capacity across the industrial base, and execution of test and evaluation activities. This funding will keep B-21 Raider development on track in support of the program's continued transition through low-rate initial production and fielding.												
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 decreased from FY 2025 by 676.462M in support of the program's transition of \$670M in discretionary funds to Mandatory funding for reconciliation.												
Accomplishments/Planned Programs Subtotals										2,636.649	2,266.370	1,589.908
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• MILCON PE 0604015: Long Range Strike Bomber	243.592	220.255	662.228	-	662.228	-	-	-	-	-	-	
• APAF 01 B02100: B-21 Raider	2,325.093	2,678.268	3,452.116	-	3,452.116	-	-	-	-	-	-	
• OPAF 03 834130: Air Force Physical Security System	7.020	6.206	2.991	-	2.991	-	-	-	-	-	-	
Remarks												
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.												
D. Acquisition Strategy												
The B-21 philosophy to drive success has been to actively manage the program, contract and contractor; to partner with the prime and supply chain for win-win successes; and to aggressively identify and mitigate risk early. The acquisition strategy incentivizes industry partners to achieve cost, schedule and performance objectives.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber				Project (Number/Name) 643308 / B-21 Development					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Actual breakout provided in Special Access Program Annual Report to Congress	Various	Not specified. : CA	-	2,636.649		2,266.370		1,589.908		-		1,589.908	-	-	-
Subtotal			-	2,636.649		2,266.370		1,589.908		-		1,589.908	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2,636.649		2,266.370		1,589.908		-		1,589.908	-	-	N/A
Remarks															
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0604015F / Long Range Strike - Bomber					643308 / B-21 Development			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Long Range Strike Bomber																												
Actual schedule provided in Special Access Program Annual Report to Congress																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber	Project (Number/Name) 643308 / B-21 Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Long Range Strike Bomber				
Actual schedule provided in Special Access Program Annual Report to Congress	1	2024	4	2030

Note
This program is reported in accordance with Title 10, USC, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber				Project (Number/Name) 644044 / B-21 Modernization			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
644044: B-21 Modernization	0.000	241.195	387.703	757.317	0.000	757.317	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. Program overview provided below.

The Long Range Strike - Bomber (B-21 Raider) is crucial to the nuclear modernization plan, forming the backbone of the Nation's future bomber force, providing both conventional and nuclear capability. The B-21 platform provides range, access, and payload to go anywhere needed, with the weapons required to deter and win our nation's wars. Its open system architecture will enable rapid integration of future capabilities, keeping the platform relevant and effective as the threat environment evolves. The Air Force requires a minimum of 100 B-21s as part of the long-term bomber force. The Engineering and Manufacturing Development (EMD) contract was awarded in 2015, followed by a Critical Design Review (CDR) completed in 2018. Test aircraft are executing the B-21 flight test campaign and an approved Milestone C decision with all statutory and regulatory documentation was completed in 2023. Subsequently, the first two production lots have been awarded. Modernization BPAC for tracking separately from EMD funding line created 2024. B-21 aircraft will be delivered to operational bases in the mid-2020s.

The FY2026 request for the B-21 Modernization BPAC includes \$757M of discretionary and \$0M of mandatory (reconciliation) for a total of \$757M. The mandatory funds expansion of capacity of B-21. Further information for this reconciliation request is provided in Section 20008 of the Reconciliation Exhibit.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Long Range Strike Bomber (B-21) Modernization	241.195	387.703	757.317
Description: B-21 Raider will be a dual-capable penetrating strike stealth bomber capable of delivering both conventional and nuclear munitions. Designed to operate in tomorrow's high-end threat environment, the B-21 will play a critical role in ensuring America's enduring airpower capability.			
FY 2025 Plans: FY 2025 includes funding for the continuation of modernization studies/ technical risk reduction activities. In addition, modernization activities will be supported, which includes but is not limited to, Long Range Standoff Weapon (LRSO) integration, conventional weapon integration, air vehicle provisioning for future capabilities, sensors, payloads, and continued nuclear certification activities.			
FY 2026 Plans: FY 2026 includes funding for the continuation of modernization studies/ technical risk reduction activities. In addition, modernization activities will be supported, which includes but is not limited to, Long Range Standoff Weapon (LRSO) integration,			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber	Project (Number/Name) 644044 / B-21 Modernization		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
conventional weapon integration, air vehicle provisioning for future capabilities, sensors, payloads, and continued nuclear certification activities.					
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increased from FY 2025 by \$369.614M in support of the program's increasing design scope of modernization activities began in 2024, to include enhanced technologies, and nuclear certification as well as infrastructure transitioning from baseline to modernization.					
Accomplishments/Planned Programs Subtotals			241.195	387.703	757.317
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(AT&L)/DSP.					
D. Acquisition Strategy					
The B-21 philosophy to drive success has been to actively manage the program, contract and contractor; to partner with the prime and supply chain for win-win successes; and to aggressively identify and mitigate risk early. The acquisition strategy incentivizes industry partners to achieve cost, schedule and performance objectives.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber				Project (Number/Name) 644044 / B-21 Modernization					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Actual breakout provided in Special Access Program Annual Report to Congress	Various	Not specified. : FL	-	241.195		387.703		757.317		-		757.317	-	-	-
Subtotal			-	241.195		387.703		757.317		-		757.317	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	241.195		387.703		757.317		-		757.317	-	-	N/A
Remarks															
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity
3600 / 4

R-1 Program Element (Number/Name)
PE 0604015F / Long Range Strike - Bomber

Project (Number/Name)
644044 / B-21 Modernization

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Long Range Strike Bomber																												
Actual schedule provided in Special Access Program Annual Report to Congress																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604015F / Long Range Strike - Bomber	Project (Number/Name) 644044 / B-21 Modernization	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Long Range Strike Bomber				
Actual schedule provided in Special Access Program Annual Report to Congress	1	2024	4	2030

Note
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	PE 0604025F I <i>Rapid Defense Experimentation Reserve (RDER)</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	62.595	75.051	0.000	0.000	0.000	-	-	-	-	-	-
640858: <i>AFWERX Prime</i>	0.000	62.595	0.000	0.000	0.000	0.000	-	-	-	-	-	-
640862: <i>Rapid Defense Experimentation Reserve</i>	0.000	0.000	75.051	0.000	0.000	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

No funds requested in the 2026 President's Budget. Experimentation Efforts supported under the Rapid Defense Experimentation Reserve (RDER) for FY 2025:

- Angry Badger: experiment to develop capability for achieving force projection in highly contested environments utilizing existing aircraft fleet structure.
- (previous: JRBL Cage: Consolidation of Best in Breed Podded technologies)
- DEFEND Experimentation
- Classified Projects (more information available in appropriate forums)

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	154.300	75.051	0.000	0.000	0.000
Current President's Budget	62.595	75.051	0.000	0.000	0.000
Total Adjustments	-91.705	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-91.705	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604025F / Rapid Defense Experimentation Reserve (RDER)				Project (Number/Name) 640858 / AFWERX Prime			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640858: AFWERX Prime	0.000	62.595	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The Department of the Air Force's component of the Rapid Defense Experimentation Reserve (RDER) is executed within this program element (PE). To facilitate rapid modernization of the force, the RDER initiative was established in the Defense Planning Guidance for Fiscal Years 2023-2027, to encourage multi-component experimentation through a campaign of learning. Services, Agencies, and other participating organizations are to identify "best of breed" capabilities developed among the DoD prototyping programs, and execute approved projects through large-scale, cross- service experiments in order to refine and/or validate the Joint Warfighting Concept (JWC). Organizations nominate proposals to the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) that are multi-component — involving Joint Services, International partners and/or other government agencies and link to one or more of the four key supporting concepts ("functional battles") of the Joint Warfighting Concept: Joint Concept for Fires, Joint Concept for Command and Control, Joint Concept for Contested Logistics, and Joint Concept for Information Advantage.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Rapid Defense Experimentation Reserve									62.595	0.000	-	
Description: The Department of Defense implement multiple RDER experimentation series through Service nominated projects with execution timelines ranging from one to two years. The USD (R&E) will review project progress, and recommend new focus areas at least annually with the goal of quickly incorporating the most promising innovative prototypes into experiments, and promptly terminating projects that fail to achieve expectations. To incentivize a disciplined approach to rapidly identify, incorporate, and execute projects largely through the Military Services, the Department will fund approved Service projects for the upcoming fiscal year out of the Department reserves. Funding decisions on additional funds in follow-on years for new projects, and funding decrements for project terminations will be incorporated in budgets annually based on emerging requirements and periodic assessments of project viability. Services will execute these funds under oversight of the OSD in a manner consistent with the experimentation scenario for which individual projects were selected. Service experimentation outcomes will be designed to validate required capabilities enabling the JWC by evaluating and integrating prototyped technologies in operationally relevant, multi-domain environments. Experimentation results will facilitate Joint Staff analysis in the evaluation of the Joint Warfighting Concept, assist the Joint Requirements Oversight Counsel in requirements determination, and inform the Deputy's Management Action Group to make budget decisions that effect changes throughout the Department.												
FY 2025 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604025F / Rapid Defense Experimentation Reserve (RDER)	Project (Number/Name) 640858 / AFWERX Prime		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Current scheduled plans for FY 2025 include initiation of the collaborative joint best of breed podded solution as well as other classified efforts.				
FY 2025 to FY 2026 Increase/Decrease Statement: N/A				
Accomplishments/Planned Programs Subtotals		62.595	0.000	-
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy Various				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604025F / Rapid Defense Experimentation Reserve (RDER)				Project (Number/Name) 640858 / AFWERX Prime					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
RDER 24-1 Rapid Infrastructure Deployment	Various	Various : TBD	-	6.300	Oct 2023	-		-		-		-	-	-	-
RDER 24- 1 Aerial-Port of the Future	Various	Various : TBD	-	1.500	Dec 2023	-		-		-		-	-	-	-
RDER 24 -2 LTAMDS V	Various	Various : TBD	-	8.000	Nov 2023	-		-		-		-	-	-	-
RDER 24-2 Joint Tactical Edge Network (JTEN)	Various	Various : TBD	-	13.000	Oct 2023	-		-		-		-	-	-	-
RDER 24-2 GLADIATR Rapidly Deployable Hypervelocity Gun Weapon System	Various	Various : TBD	-	20.000	Dec 2023	-		-		-		-	-	-	-
RDER 24-2 Low Cost Threat Emitter	Various	Various : TBD	-	2.800	Dec 2023	-		-		-		-	-	-	-
RDER 24-2 Control Systems for Coordinated Operations (CoSyCo)	Various	Various : TBD	-	10.000	Dec 2023	-		-		-		-	-	-	-
RDER - Program Management Support	Various	Various : TBD	-	0.995	Dec 2023	-		-		-		-	-	-	-
Subtotal			-	62.595		-		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	62.595		-		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0604025F / Rapid Defense Experimentation Reserve (RDER)					640858 / AFWERX Prime			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Rapid Defense Experimentation Reserve																												
Aerial Port of the Future																												
Rapid Infrastructure Deployment																												
Control Systems for Coordinated Operations																												
LTAMDS V																												
Joint Tactical Edge Network																												
GLADIATR Rapidly Deployable Hypervelocity Gun Weapon System																												
Low Cost Threat Emitter																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604025F / <i>Rapid Defense Experimentation Reserve (RDER)</i>	Project (Number/Name) 640858 / <i>AFWERX Prime</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Rapid Defense Experimentation Reserve</i>				
Aerial Port of the Future	1	2024	4	2025
Rapid Infrastructure Deployment	1	2024	4	2025
Control Systems for Coordinated Operations	1	2024	4	2025
LTAMDS V	1	2024	4	2025
Joint Tactical Edge Network	1	2024	4	2025
GLADIATR Rapidly Deployable Hypervelocity Gun Weapon System	1	2024	4	2025
Low Cost Threat Emitter	1	2024	4	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604025F / <i>Rapid Defense Experimentation Reserve (RDER)</i>				Project (Number/Name) 640862 / <i>Rapid Defense Experimentation Reserve</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640862: <i>Rapid Defense Experimentation Reserve</i>	0.000	0.000	75.051	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification No funds requested in the 2026 President's Budget. Experimentation Efforts supported under Rapid Defense Experimentation Reserve (RDER) for FY 2025: -Angry Badger: experiment to develop capability for achieving force projection in highly contested environments utilizing existing aircraft fleet structure. --(previous: JRBL Cage: Consolidation of Best in Breed Podded technologies) -DEFEND Experimentation -Classified Projects (more information available in appropriate forums)												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: RDT&E Program Wide Activities Description: USAF RDER efforts supporting joint experimentation FY 2025 Plans: -Angry Badger: experiment to develop capability for achieving force projection in highly contested environments utilizing existing aircraft fleet structure. --(previous: JRBL Cage: Consolidation of Best in Breed Podded technologies) -DEFEND Experimentation -Classified Projects (more information available in appropriate forums) FY 2026 Plans: No efforts planned in FY 2026 FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 decreased compared to FY 2025 by \$75.051M as RDER funding is provided in single-year increments.									0.000	75.051	0.000	
Accomplishments/Planned Programs Subtotals									0.000	75.051	0.000	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604025F / <i>Rapid Defense Experimentation Reserve (RDER)</i>	Project (Number/Name) 640862 / <i>Rapid Defense Experimentation Reserve</i>

D. Acquisition Strategy

various

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604025F / Rapid Defense Experimentation Reserve (RDER)						Project (Number/Name) 640862 / Rapid Defense Experimentation Reserve			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Angry Badger Experimentation	Various	Not specified. : TBD	-	-		2.000		-		-		-	-	-	-
DEFEND Experimentation	Various	Not specified. : TBD	-	-		4.900		-		-		-	-	-	-
Classified effort	Various	Not specified. : TBD	-	-		14.000		-		-		-	-	-	-
Classified effort-other	Various	Not specified. : TBD	-	-		54.151		-		-		-	-	-	-
Subtotal			-	-		75.051		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		75.051		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 4					PE 0604025F / Rapid Defense Experimentation Reserve (RDER)					640862 / Rapid Defense Experimentation Reserve									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Angry Badger Experimentation																												
Angry Badger Experimentation																												
DEFEND Experimentation																												
DEFEND Experimentation																												
Classified efforts																												
Classified efforts																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604025F / Rapid Defense Experimentation Reserve (RDER)	Project (Number/Name) 640862 / Rapid Defense Experimentation Reserve	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Angry Badger Experimentation				
Angry Badger Experimentation	1	2025	4	2026
DEFEND Experimentation				
DEFEND Experimentation	1	2025	4	2026
Classified efforts				
Classified efforts	1	2025	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0604032F / <i>Directed Energy Prototyping</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	1.246	1.312	0.000	0.000	0.000	-	-	-	-	-	-
640200: <i>DE Prototyping</i>	0.000	1.246	1.312	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Air Force Life Cycle Management Center, Architecture and Integration Directorate Directed Energy Prototyping Program develops, acquires and evaluates prototype high energy laser, high power microwave and/or other electromagnetic radiation or particle beam technologies as a future integral component of Air Force missions. The Directed Energy Prototyping Program bridges the gap between lab based technology demonstration under a controlled environment, and demonstration of a system in realistic environments with the intent of establishing successful acquisition, and operation or operational capability implementation.

This prototyping effort enables the ability to integrate the directed energy prototype systems with other operational systems required for the mission (e.g. radar, command and control, etc.), conduct test and evaluation activities, and mature emerging directed energy technology systems based on prototyping activities to enable rapid fielding to the warfighter. The Directed Energy Prototyping Program allows acquisition program managers (capability developers) and warfighters (capability recipients and end users) to prototype, integrate, evaluate, and demonstrate candidate weapon technologies and assess them in an operational environment with the intent of iteratively maturing directed energy technologies to a production representative design.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In Prior Year 2023, 1.046M was expended for civilian pay expenses in this program element, and in CY 2024 1.023M is forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0604032F I Directed Energy Prototyping				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	1.246	3.712	4.216	0.000	4.216	
Current President's Budget	1.246	1.312	0.000	0.000	0.000	
Total Adjustments	0.000	-2.400	-4.216	0.000	-4.216	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	-2.400				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	-4.216	0.000	-4.216	
Change Summary Explanation The FY 2026 decrease of \$1.312 million is due to reprioritization of efforts.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Directed Energy Capabilities				1.246	1.312	0.000
Description: Prototypes and evaluates Directed energy weapon technologies for Airbase Defense against unmanned aerial vehicles and cruise missiles, Precision Strike against electronic and conventional targets and Aircraft Defense against incoming threats.						
FY 2025 Plans: Programmatic responsibility for the counter-UAS Directed Energy prototypes was transferred to the ARMY Rapid Capabilities and Critical Technologies (RCCTO) Directed Energy Project Office at the end of FY24. Pending identification of budgetary priority for transition, ongoing counter-UAS prototyping and operational test activities will conclude after FY24. Effort to support successful field assessment and test of delivered DAF prototypes to the ARMY will continue through FY25.						
FY 2026 Plans: This effort for the counter-UAS prototypes was transferred to the ARMY Rapid Capabilities and Critical Technologies office (RCCTO) Directed Energy Project Office at the end of FY24. The FY26 funding is redirected to higher priority DE technology maturation efforts.						
FY 2025 to FY 2026 Increase/Decrease Statement:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604032F / <i>Directed Energy Prototyping</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY2026 funding decreased compared to FY 2025 by \$1.312 million due to this effort for the counter-UAS prototypes transferring to the ARMY Rapid Capabilities and Critical Technologies (RCCTO) Directed Energy Project Office at the end of FY 2024.				
Accomplishments/Planned Programs Subtotals		1.246	1.312	0.000
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks Not Applicable				
E. Acquisition Strategy During FY 2020, the Air Force Life Cycle Management Center, Architecture and Integration Directorate, Wright-Patterson Air Force Base, Ohio conducted a source selection evaluating eight (8) ground-based Counter unmanned Aerial Systems for prototype development. In Fourth Quarter FY 2020, three (3) vendors were selected for award using Other Transaction Authority based on a best value determination with Technical being the most important factor. During FY 2021, these three (3) prototypes were selected based on operational capability/suitability assessment supporting the Airbase defense mission. In FY 2022, a high energy laser system was transferred into the program from AFRL/RS 0604858F. In FY 2023, a congressional interest item added an upgraded unit that will be delivered in early FY 2024. Acceptance testing and characterization test through early FY 2024. Prototypes will undergo field assessment in FY 2023 and FY 2024 at OCONUS locations. In FY24 it was identified that there were no further requirements for the counter-UAS prototyping as part of the AF DE program. The ARMY Rapid Capabilities and Critical Technologies (RCCTO) was interested in the technology in the current prototypes, so this part of the program was transitioned to the ARMY at the end of FY24. The FY23 and prior funding already obligated by the 704th Test organization will continue to support the prototyping program as the ARMY completes the testing in FY25. This effort is expected to be complete by 30 Sep 2025 and funding in the out-years will be re-directed to higher priority Directed Energy transition efforts.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604032F / Directed Energy Prototyping				Project (Number/Name) 640200 / DE Prototyping					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Directed Energy Prototyping Program Administration	Various	AFLCMC : Various	-	0.150	Oct 2023	1.312	Sep 2025	0.000	Sep 2026	-		0.000	-	-	-
Direct Cite Authority	TBD	AFLCMC : Various	-	1.096	Oct 2023	0.000	Oct 2024	-		-		-	-	-	-
Subtotal			-	1.246		1.312		0.000		-		0.000	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.246		1.312		0.000		-		0.000	-	-	N/A
Remarks															
FY 2022 - FY 2028 will concentrate on prototyping and maturing high energy laser and high power microwave systems for base area defense in preparation for transition to program of record. The program makes use of Other Transactional Authorities (OTA). Continued support will be provided by the Directed Energy Transition Management Office, Kirtland Air Force Base, New Mexico.															
Programmatic authority for this effort was transferred to the ARMY Rapid Capabilities and Critical Technologies Office (RCCTO) at the End of FY24. FY25 Funding of 0.800M will be required to shut down the effort in FY25. Funding in FY26 and out will be redirected to higher priority Directed Energy efforts.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)		Project (Number/Name)	
3600 / 4		PE 0604032F / Directed Energy Prototyping		640200 / DE Prototyping	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Field Suitability Assessment																												
Government assessment of suitability and effectiveness for field operations																												
Directed Energy Counter-Unmanned System (C-UAS) technical maturation																												
Incremental improvements to Directed Energy counter-UAS Prototype systems to provide increased Airbase defense counter-UAS capability to warfighter																												
Program Testing support to the ARMY																												
Program has been transitioned to the ARMY at the end of FY24. AF will support the testing at the 704th for the ARMY.																												
Directed Energy program shutdown																												
Close out of any remaining contracts and agreements to shutdown the program.																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604032F / <i>Directed Energy Prototyping</i>	Project (Number/Name) 640200 / <i>DE Prototyping</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Field Suitability Assessment</i>				
Government assessment of suitability and effectiveness for field operations	1	2024	2	2024
<i>Directed Energy Counter-Unmanned System (C-UAS) technical maturation</i>				
Incremental improvements to Directed Energy counter-UAS Prototype systems to provide increased Airbase defense counter-UAS capability to warfighter	1	2024	1	2024
<i>Program Testing support to the ARMY</i>				
Program has been transitioned to the ARMY at the end of FY24. AF will support the testing at the 704th for the ARMY.	3	2024	4	2025
<i>Directed Energy program shutdown</i>				
Close out of any remaining contracts and agreements to shutdown the program.	1	2024	4	2025

Note

FY 2022 - FY 2028 will concentrate on maturing high energy laser and high power microwave systems for base area defense in preparation for transition of prototype weapon systems to program(s) of record. The program makes use of Other Transactional Authorities (OTA). Continued support will be provided by the Directed Energy Transition Management Office, Kirtland Air Force Base, New Mexico.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	PE 0604033F / <i>Hypersonics Prototyping</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	27.903	0.000	0.000	0.000	0.000	-	-	-	-	-	-
643882: <i>Air-Launched Rapid Response Weapon (ARRW)</i>	0.000	27.903	0.000	0.000	0.000	0.000	-	-	-	-	-	-

Note

In FY 2024, HACM funding under PE0604033F, Project 643883 Hypersonic Attack Cruise Missile, efforts were transferred to PE 0604183F, Project 644183 Hypersonic Attack Cruise Missile in order to continue HACM development.

In FY 2024, project 643882 was completed. Post-MTA technology efforts, such as hardware upgrade, design trades, and testing were conducted with remaining FY24 funding to aid with Hypersonic enterprise tech development.

A. Mission Description and Budget Item Justification

The Hypersonics Prototyping program enabled integration and demonstration of emerging hypersonic technologies in an operational or operational-like environment to capitalize on successful laboratory hypersonic research and development efforts with high warfighter priority. Integration and demonstration of hypersonic prototypes also allowed leadership to make informed strategy and resource decisions for future programs based on the results of such hypersonic prototype demonstrations.

Hypersonic Prototyping enabled a key linkage between research and development in the lab and fielding advanced technologies to the warfighter. Under this program, Air-Launched Rapid Response Weapon (ARRW) accelerated the technology transfer of hypersonic technologies to enable a responsive, long range strike capability.

Throughout this program element was future hypersonic development, which incubated and matured new technologies, processes, and resources for the development and demonstration of hypersonic technology including, but not limited to, infrastructure advancements, digital engineering, open systems architecture, modeling and simulation, analytics, and high performance computing environments.

Investing in hypersonics development enabled the collection of valuable data, built capacity and capability, allowing hypersonic programs to leverage and build upon each other, and projects the overall technology forward.

This program element included all necessary 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 FY2024 \$1.13 million was expended for civilian pay expenses in this program element, in FY2025 \$0.00 million was forecasted for civilian pay expenses.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604033F I Hypersonics Prototyping			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	150.340	0.000	0.000	0.000	0.000
Current President's Budget	27.903	0.000	0.000	0.000	0.000
Total Adjustments	-122.437	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-115.340	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-6.976	0.000			
• SBIR/STTR Transfer	-0.121	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000
Change Summary Explanation					
In FY 2024, funding decreased -\$115.340M for Congressional reductions due to excess to plan; -\$6.976M for internal reprogramming action; -\$0.121 for Small Business Innovative Research (SBIR)					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604033F / Hypersonics Prototyping				Project (Number/Name) 643882 / Air-Launched Rapid Response Weapon (ARRW)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
643882: Air-Launched Rapid Response Weapon (ARRW)	0.000	27.903	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note In FY2024, project 643882 was completed.												
A. Mission Description and Budget Item Justification The Air-Launched Rapid Response Weapon (ARRW) project integrated Air Force and DARPA enabled system technologies into a prototype that demonstrated the viability of this concept to be fielded as a long range prompt strike capability. ARRW designed, developed, manufactured, and tested, a number of prototype vehicles to inform decisions concerning ARRW acquisition and production. Future hypersonics development will incubate and mature new technology, processes, and resources for the development and demonstration of hypersonic technology including, but not limited to, infrastructure advancements, digital engineering, open systems architecture, modeling and simulation, analytics, and high performance computing environments. Investing in hypersonics development will enable the collection of valuable data, building of capacity and capability, allowing hypersonic programs to leverage and build upon each other, and project the overall technology forward. In FY 2022, PE 0101101F, Project ARRW00/AGM-183A Air-Launched Rapid Response Weapon, efforts were transferred to PE 0604033F, Hypersonics Prototyping, Project 643882, Air-Launched Rapid Response Weapon, in order to mitigate the testing shortfall (PE 0604033F remains RDT&E only). In FY 2026, ARRW Procurement is being added to PE 0101101F. The total cost of the ARRW Rapid Prototyping Middle Tier of Acquisition effort was 1,730.073 million, including RDT&E and procurement of prototype units. This program element included all necessary 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 FY2024 \$1.130 million was expended for civilian pay expenses in this program element, in FY2025 0.00 million was forecasted for civilian pay expenses.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Air Launched Rapid Response Weapon (ARRW)									27.903	0.000	0.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604033F / <i>Hypersonics Prototyping</i>				Project (Number/Name) 643882 / <i>Air-Launched Rapid Response Weapon (ARRW)</i>			

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
Description: Integrated Air Force and DARPA enabled system technologies into a prototype that demonstrated the viability of this concept to be fielded as a long range prompt strike capability. ARRW designed, developed, manufactured, and tested, a number of prototype vehicles to inform decisions concerning ARRW acquisition, production, and leave behind capability. Post-MTA technology efforts, such as hardware upgrades, design trades, and testing were used with remaining FY24 funding to aid with Hypersonic enterprise tech development. FY 2025 Plans: Funding not required due to program completion. FY 2026 Plans: Funding not required due to program completion. FY 2025 to FY 2026 Increase/Decrease Statement: N/A			
Accomplishments/Planned Programs Subtotals	27.903	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• MPAF 02 0101101F: <i>ARRW00 / AGM-183A Air-Launched Rapid Response Weapon</i>	-	-	387.055	-	387.055	-	-	-	-	-	-
Remarks											
D. Acquisition Strategy											
Acquisition Decision Memorandum (signed 3 May 2018) designated Air-Launched Rapid Response Weapon (ARRW) as Section 804 Rapid Prototyping Program.											
The Air Force awarded in August 2018 an undefinitized contract in order to complete a critical design review and procure all long lead parts and materials. The ARRW Program definitized this contract December 2019 to include the entire RDT&E effort (through the end of flight test). The cost type contract included schedule incentives. The government agency responsible for managing this program is the Air Force Life Cycle Management Center, Armament Directorate, Eglin AFB, FL.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force													Date: June 2025		
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604033F / Hypersonics Prototyping				Project (Number/Name) 643882 / Air-Launched Rapid Response Weapon (ARRW)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ARRW - Contract	C/CPFF	LMCO: Various : Various	-	25.498	Jun 2025	-		-		-		-	-	-	-
ARRW - Aircraft Integration	Various	Various : Various	-	0.000		-		-		-		-	-	-	-
Subtotal			-	25.498		-		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority Civilian Pay	Allot	Not specified. : TBD	-	1.130	Sep 2024	-		-		-		-	-	-	-
Subtotal			-	1.130		-		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ARRW - Government Test	Various	Various : TBD	-	0.200	Jul 2025	-		-		-		-	-	-	-
Subtotal			-	0.200		-		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ARRW - Program Management Administration	Various	Not specified. : TBD	-	1.075	Aug 2025	-		-		-		-	-	-	-
Subtotal			-	1.075		-		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604033F / Hypersonics Prototyping						Project (Number/Name) 643882 / Air-Launched Rapid Response Weapon (ARRW)					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Remarks Included A&AS support requirements plus TDY, and office supplies.																	
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	27.903		-		-		-		-	-	-	N/A		
Remarks Additional details on Hypersonics prototyping concepts will be provided in the appropriate forum.																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4			R-1 Program Element (Number/Name) PE 0604033F / Hypersonics Prototyping		
			Project (Number/Name) 643882 / Air-Launched Rapid Response Weapon (ARRW)		

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Air Launched Rapid Response Weapon (ARRW)																												
ARRW - Contract																												
Flight Tests																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604033F / Hypersonics Prototyping	Project (Number/Name) 643882 / Air-Launched Rapid Response Weapon (ARRW)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Air Launched Rapid Response Weapon (ARRW)				
ARRW - Contract	1	2024	4	2026
Flight Tests	2	2024	2	2024

Note
Rapid prototyping MTA complete. No-cost period of performance extension for post-MTA activities through 2QFY26. Further schedule details can be provided in the appropriate forum.

Post-MTA technology efforts, such as hardware upgrades, design trades, and testing were used with remaining FY24 funding to aid with Hypersonic enterprise tech development.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604183F I Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	333.328	466.729	802.810	0.000	802.810	-	-	-	-	-	-
644183: Hypersonic Attack Cruise Missile (HACM)	0.000	333.328	466.729	802.810	0.000	802.810	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note In FY2024, HACM funding under PE0604033F, Project 643883 Hypersonic Attack Cruise Missile, efforts were transferred to PE 0604183F, Project 644183 Hypersonic Attack Cruise Missile in order to continue HACM development.												
A. Mission Description and Budget Item Justification Hypersonic Attack Cruise Missile (HACM) is an air-launched, air breathing hypersonic weapon capable of integration on fighter and bombers and enable the U.S. to hold fixed, high value, time-sensitive targets at risk in contested environments from standoff distances. The program leverages investment from the Southern Cross Integrated Flight Research Experiment (SCIFiRE), a bi-lateral U.S./Australian air-breathing hypersonic cruise missile prototyping effort. The HACM program will integrate advanced technologies and mature designs into an All-Up Round (AUR) prototype that will demonstrate a field-able long range prompt strike capability. HACM will design, develop, manufacture, and test prototype vehicles to inform future HACM acquisition decisions. HACM will mature hypersonic technologies and processes to include: subsystem integration, infrastructure and testing advancements, Digital Engineering (DE), Weapons Open Systems Architecture (WOSA), Modeling and Simulation (M&S), analytics, and high performance computing environments. Implements Digital Acquisition tenants of Open, Agile, and Digital; builds and establishes industrial base innovation around the program's enterprise for modularity and adaptability for the life cycle of the weapons system. Leverages common component development, in collaboration with other weapon systems, to reduce redundant costs between systems with similar subsystems requirements. Invests in analytical, data management, digital environments, networks, facilities, and security infrastructure upgrades supporting development of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions. Expands program office staff, facilities, and security infrastructure to support the required classification levels for this program's activities. Engages with DoD, DAF, and industry stakeholders to refine threat analysis, refine inventory requirements, and plan upgrade requirements. Capitalizes on and incorporates successful laboratory research and development efforts applicable to this program's capability. The FY 2026 cost of Middle Tier of Acquisition for HACM is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify Future Years Defense Program (FYDP) funding in a future budget submission. The FY 2026 request was reduced by \$0.624 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604183F I Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)				
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 8.255M was expended for civilian pay expenses in this program element, and in FY 2025 11.738M was forecasted for civilian pay expenses in this program element.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		381.528	516.971	448.551	0.000	448.551
Current President's Budget		333.328	466.729	802.810	0.000	802.810
Total Adjustments		-48.200	-50.242	354.259	0.000	354.259
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-41.800	-50.242			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		3.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-9.174	0.000			
• Other Adjustments		-0.226	0.000	354.259	0.000	354.259
Change Summary Explanation						
FY 2024 decreased by -\$48.2M. Adjustments include Congressional Mark of -\$41.8M for Unjustified Request and \$3M add to Accelerate air-breathing hypersonic manufacturing AUR maturation; -\$9.174M for Small Business Innovative Research (SBIR); -\$0.226M due to Congressional Markup FFRDC Reduction Section 8026(e).						
FY 2025 decreased -\$50.242M due to Unjustified Request.						
FY 2026 increased by \$354.259M to expand the Manufacturing Capacity for HACM in preparation for its transition out of Rapid Prototyping, development of prototype rounds, and operational suitability improvements.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: HACM Development				264.837	380.986	711.906
Description: Purchasing hardware and completing a critical design, initial long-lead flight test asset hardware, to include aircraft integration assets, investment in manufacturing readiness, and operational suitability improvements.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604183F <i>I Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
<i>FY 2025 Plans:</i> This effort continued model-based engineering activities in the DE ecosystem to complete the HACM critical design. Efforts also included additional design verification testing, systems integration, subsystem qualification, and integration on the F-15E and F/A-18F platforms. Began work for preplanned product improvement for integration into design, development, and production.				
<i>FY 2026 Plans:</i> This effort will continue model-based system engineering activities in the DE ecosystem. Effort will include additional design verification testing, operational suitability improvements, prototype manufacturing, systems integration, subsystem qualification, manufacturing capacity investment, and integration on the F-15E and F/A-18F platforms. Continue work on product improvement for integration into design, development, and production. Additionally, continue to expand the manufacturing capacity, development of prototype rounds, and operational suitability improvements.				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 increased compared to FY 2025 to support required manufacturing capacity enhancement investments in the HACM supply chain to produce prototype units, prototype manufacturing, and operational suitability improvements.				
<i>Title:</i> Integration, Qualification, and Test <i>Description:</i> This effort includes the Government costs associated with assembly, integration and test of subsystems for qualification testing as well as prototype systems for system qualification, ground test and flight testing. The effort includes the planning, execution and analysis to complete the defined HACM test strategy.		24.541	44.122	52.721
<i>FY 2025 Plans:</i> Effort conducted additional subsystem qualification testing and completed integration, assembly, test, and checkout of the All-Up-Round system.				
<i>FY 2026 Plans:</i> Effort will conduct additional subsystem qualification testing and complete integration, assembly, test, and checkout of the All-Up-Round system. Efforts will also include initial flight testing of HACM prototypes and other risk data.				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 increased compared to FY 2025 due to additional flights.				
<i>Title:</i> Program Support <i>Description:</i> Program Support Cost (PSC) includes contractor services: Engineering, Professional, and Administrative Support Services (EPASS) and or/other contract support. May also include mission planning, travel, Government Purchase Card (GPC),		43.950	41.621	38.183

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025			
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604183F / <i>Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)</i>				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026	
Direct Cite Authority (DCA) civilian pay, costs associated to meet future security upgrades/requirements, and/or other Government costs. FY 2025 Plans: Efforts included DE, WOSA development/support, DE Infrastructure, mission planning, tech orders, travel, and DCA civilian pay. FY 2026 Plans: Efforts will include DE, WOSA development/support, DE Infrastructure, mission planning, tech orders, travel, and DCA civilian pay. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 decreased compared to FY 2025 due to reduction in A&AS support, FFRDC support, and travel.					
Accomplishments/Planned Programs Subtotals		333.328	466.729	802.810	
D. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
E. Acquisition Strategy					
The program leverages the SCIFiRE investment, a bi-lateral U.S. / Australia effort which matures air-breathing cruise missile technology. Through SCIFiRE, HACM leverages efforts from the DARPA Air Force Hypersonic Air-breathing Weapon Concept (HAWC). The HACM prototype will demonstrate a weapon concept to be fielded as a long range prompt strike capability. Includes scope to develop/test/demonstrate prototype weapon through Digital Model-Based System Engineering (MBSE) process, implementing WOSA and Agile Software Development. The program will prioritize integration on the F-15E platform to meet US warfighter needs. The HACM Acquisition Strategy was approved in Dec 2021 which designated HACM as a Section 804 Middle Tier of Acquisition (MTA) Pathway (Rapid Prototyping). In Feb 2022 the OSD MTA Advisory Board concurred with HACM designation as a Rapid Prototyping MTA Pathway. The Air Force awarded a Cost Plus Fixed Fee (CPFF) contract in Sep 2022 to Raytheon Technologies to procure all long lead parts, materials and labor for HACM Critical Design Review, development, integration, qualification, and fight testing of AURs. In addition to the baseline rapid prototyping effort the program will advance subsystem technology to enhance system capability, produce additional prototype units, and conduct testing. The HACM Functional Capability Advancement (FCA) contract was awarded in Dec 2023. Further details of this activity are classified. To prepare for a future production program that meets warfighter desired quantities in relatively short timelines, the program will begin making targeted investments in Manufacturing Capacity Enhancements (MCE). These investments will ensure the industrial base can handle a ramp to full rate production that supports warfighter needs. Investments must begin in advance of a future production program to prevent significant delays in delivering assets to the field.					

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604183F I Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	
The program will also make improvements to improve the operational suitability of the weapon.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604183F / <i>Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)</i>						Project (Number/Name) 644183 / <i>Hypersonic Attack Cruise Missile (HACM)</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
HACM Prime Contractor Support, Analysis, and Development	C/CPFF	Raytheon: Tucson, AZ : TBD	-	241.920	Dec 2023	280.762	Dec 2024	446.106	Dec 2025	-		446.106	-	-	-
Functional Capability Advancement (FCA)	SS/CPFF	Raytheon: Tucson, AZ : TBD	-	0.028	Dec 2023	23.260	Dec 2024	142.400	Dec 2025	-		142.400	-	-	-
Facilitization	C/Various	Multiple: TBD: Various : TBD	-	22.890	Sep 2024	76.964	Sep 2025	123.400	Sep 2026	-		123.400	-	-	-
Subtotal			-	264.838		380.986		711.906		-		711.906	-	-	N/A
Remarks *FY 2024 through FY 2026 Manufacturing Capacity Enhancement (MCE) amounts are included in "Facilitization" line.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Development & Prototyping	C/Various	Multiple: TBD: Various : TBD	-	34.461	Dec 2023	25.648	Dec 2024	20.272	Dec 2025	-		20.272	-	-	-
Direct Cite Authority Civilian Pay	Allot	Not specified: TBD : TBD	-	8.255	Oct 2023	11.738	Oct 2024	13.823	Oct 2025	-		13.823	-	-	-
Subtotal			-	42.716		37.386		34.095		-		34.095	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test & Evaluation	C/TBD	Multiple: TBD: Various : TBD	-	24.541	Dec 2023	44.122	Dec 2024	52.721	Dec 2025	-		52.721	-	-	-
Subtotal			-	24.541		44.122		52.721		-		52.721	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604183F / Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)						Project (Number/Name) 644183 / Hypersonic Attack Cruise Missile (HACM)			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Management Services	C/TBD	Multiple: TBD: Various : TBD	-	1.233	Oct 2023	4.235	Oct 2024	4.088	Oct 2025	-		4.088	-	-	-
Subtotal			-	1.233		4.235		4.088		-		4.088	-	-	N/A
Remarks Includes A&AS support, Travel, and GPC requirements.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	333.328		466.729		802.810		-		802.810	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 4						PE 0604183F / Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)						644183 / Hypersonic Attack Cruise Missile (HACM)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Hypersonic Attack Cruise Missile (HACM)																												
HACM Development																												
Integration, Qualification, and Test																												
Functional Capability Advancement (FCA)																												
AUR Flight Testing																												
Manufacturing Capacity Enhancement (MCE)																												
Follow-On Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604183F / Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	Project (Number/Name) 644183 / Hypersonic Attack Cruise Missile (HACM)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Hypersonic Attack Cruise Missile (HACM)</i>				
HACM Development	1	2024	4	2027
Integration, Qualification, and Test	1	2024	4	2027
Functional Capability Advancement (FCA)	1	2024	1	2029
AUR Flight Testing	1	2025	4	2027
Manufacturing Capacity Enhancement (MCE)	1	2025	4	2028
Follow-On Development	3	2025	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604201F / PNT Resiliency, Mods, and Improvements							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	17.206	0.000	0.000	0.000	0.000	-	-	-	-	-	-
641030: <i>GPS Receiver Development</i>	0.000	17.206	0.000	0.000	0.000	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

PE 0604201F, Project 641030 covers the research, development, qualification, and testing of Enhanced Anti-Jam (EAJ) Military Code (M-Code) Global Positioning System (GPS) receivers for Air Force and joint weapon systems. This includes updates to weapon mission planning software to support new M-Code and EAJ receiver development. These acquisitions will enable the Air Force to increase its operational Positioning, Navigation, and Timing (PNT) resiliency while satisfying the DoD and civil mandates. Fielding of EAJ M-Code weapons requires research, development, qualification and testing of M-Code receivers across the Air Force Program Executive Officer (AFPEO) Weapons portfolio. Funds may be used to address emerging and short notice Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

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

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 FY24 \$0.00M was expended for civilian pay expenses in this program element, and in FY25 \$0.00M is planned/forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604201F I PNT Resiliency, Mods, and Improvements			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	18.041	0.000	0.000	0.000	0.000
Current President's Budget	17.206	0.000	0.000	0.000	0.000
Total Adjustments	-0.835	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.835	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000
Change Summary Explanation					
No significant changes					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604201F / PNT Resiliency, Mods, and Improvements				Project (Number/Name) 641030 / GPS Receiver Development			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
641030: GPS Receiver Development	0.000	17.206	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This munitions receiver development project includes development of a GPS M-code receiver with EAJ and analysis efforts. M-code receivers with EAJ provide advanced Positioning, Navigation, and Timing (PNT) capabilities required for weapons to operate in adversarial Anti-Access/Area Denial (A2/AD) environments. M-Code receivers with EAJ also provide increased accuracy, better signal acquisition, and advanced security.

M-code receivers with EAJ capability assures continued weapon system precision and lethality.

Fielding EAJ M-Code weapons requires research, development, qualification, testing, and mission planning of M-Code receivers across the weapons portfolio. This will include all systems, subsystems, software, fuzing, and support activities associated with the development and implementation of M-Code receivers.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: M-Code EAJ	17.206	0.000	0.000
Description: M-Code/EAJ receivers provide an enhanced anti-jam capability. M-Code/EAJ receivers provide the capability to operate in increasing adversarial A2/AD jamming environment. M-Code/EAJ receivers also provide increased accuracy, better signal acquisition, and advanced security.			
FY 2025 Plans: N/A			
FY 2026 Plans: N/A			
FY 2025 to FY 2026 Increase/Decrease Statement: N/A			
Accomplishments/Planned Programs Subtotals	17.206	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force								Date: June 2025			
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604201F / PNT Resiliency, Mods, and Improvements				Project (Number/Name) 641030 / GPS Receiver Development			

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDTE 07 0207327F: <i>Small Diameter Bomb (SDB)</i>	13.520	7.665	-	-	-	-	-	-	-	-	-
• RDTE 07 0207325F: <i>Joint Air-to-Surface Standoff Missile (JASSM)</i>	1.076	2.812	-	-	-	-	-	-	-	-	-

Remarks

Other Program Funds reference what is allocated towards internal program M-Code requirements.

D. Acquisition Strategy

M-Code/EAJ effort uses a Family of Systems (FoS) approach where the weapons prime contractors develop receivers capable of operating in any of their Air Force weapons. The receivers are based on a common, internally-developed Interface Requirements Specification (IRS), Technology Requirement Document (TRD), and threat scenarios. This approach uses a combination of contract types based on acquisition phase (Technology Maturation & Risk Reduction (TMRR), Development, Production) and risk. The weapons system program offices share a common development Program Element (PE) to allow flexibility in funding and planning, switching to individual PEs for receiver integration, operational testing, and production. The M-Code/EAJ weapons receiver development effort leverages technology currently under development by the Military GPS User Equipment (MGUE) program and will provide the warfighter with unmatched capability to operate in future A2/AD environments.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604201F / PNT Resiliency, Mods, and Improvements						Project (Number/Name) 641030 / GPS Receiver Development			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Common Weapons M-Code Receiver Development (SDB II)	Various	Raytheon : Tucson, AZ	-	12.995	Nov 2023	-		-		-		-	-	-	-
Common Weapons M-Code Receiver Development (JASSM GPS Receiver)	Various	Consortium Management Gp : Washington, DC	-	4.211	Feb 2024	-		-		-		-	-	-	-
Subtotal			-	17.206		-		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	17.206		-		-		-		-	-	-	N/A
Remarks Common Weapons M-Code Receiver Development (SDB II) funding increased from FY23 to FY24 due to HAMMER and CAAP ASIC development and integration into SDB II and TACTICAL Tomahawk.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity										R-1 Program Element (Number/Name)									
3600 / 4										PE 0604201F / PNT Resiliency, Mods, and Improvements									
										Project (Number/Name)									
										641030 / GPS Receiver Development									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
M-Code/EAJ Receivers																												
M-Code/EAJ Research & Development																												
M-Code/EAJ Test and Qualification																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604201F / PNT Resiliency, Mods, and Improvements	Project (Number/Name) 641030 / GPS Receiver Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
M-Code/EAJ Receivers				
M-Code/EAJ Research & Development	1	2024	3	2025
M-Code/EAJ Test and Qualification	1	2024	3	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604257F I <i>Advanced Technology and Sensors</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	22.616	15.865	40.779	0.000	40.779	-	-	-	-	-	-
642001: <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>	0.000	12.461	8.145	29.924	0.000	29.924	-	-	-	-	-	-
644818: <i>Imaging and Targeting Support</i>	0.000	10.155	7.720	10.855	0.000	10.855	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Advanced Technology and Sensors (ATS) Program Element (PE) coordinates the development, validation, test, and transition of platform-agile advanced sensor technologies (sensors, processing algorithms, automated target recognition software, multi-intelligence fusion) in support of aerial platforms including, but not limited to, High-Altitude Long Endurance (HALE), crewed and uncrewed airborne reconnaissance platforms, Autonomous Collaborative Platforms, and Collaborative Combat Aircraft (CCA) as well as Other Air Force Platforms (OAFP) whose capabilities are protected at a higher level. ATS' objectives are to develop, demonstrate, and rapidly transition advanced, interoperable, multi-platform solutions to reduce the find, fix, track, and target kill chain timeline. ATS seeks out lower Technology Readiness Level (TRL) technologies that have the potential to fill Geospatial Intelligence (GEOINT) capability gaps to support CCMD plans and the future AF's future force design. ATS matures these technologies to TRL 6/7 prior to transitioning to existing programs of record or to the Airborne Reconnaissance Systems PE (0305206F) for follow-on development under Budget Authority 7 (BA-7). The PE includes two levels of effort including Next Generation Sensors - Risk Reduction (NGS-RR) and Imaging and Targeting Support (I&TS).

The NGS-RR program is a platform-agile suite of sensor development and demonstration technologies designed for the best flexibility and capability for an ever-changing scale of ISR missions. NGS-RR furthers maturation and risk reduction of select technologies initiated under I&TS and other low TRL maturation efforts culminating in operational prototype demonstrations. The power behind the NGS-RR program is an open architectural system design that enables rapid third-party software and line replaceable unit insertion/replacement. NGS-RR implements foundational sensor development technologies including the MEDUSA flight demonstration platform, Digital Engineering (DE), Model-Based Systems Engineering (MBSE), and a software environment and repository (AURORA). In FY 2026, NGS-RR will continue flight tests of fully integrated podded payloads, integration of maturation of NAVAIR and other maritime automated target recognition algorithms and support collaborative teaming demonstrations.

Additionally, RESOLUTE SENTRY will transition from the AF Research Laboratory to NGS-RR for technical maturation and integration into the first operational platform in FY 2026. RESOLUTE SENTRY is an AI-driven, multi-platform, sense-making tool for predictive analytics and orchestration at the tactical edge. It provides real-time, high-quality detection, identification and tracking to close kill chains and predict adversary activity. The program delivers a platform-agnostic, edge-hostable software solution to ingest and fuse multi-INT data across multiple platforms at the tactical edge. The data will then be used to generate actionable information on the highly contested environment for Blue Force commanders and national decision making. RESOLUTE SENTRY will execute in this PE from FY26 to FY27, then will transition to ARS PE 35206F in FY28.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0604257F I Advanced Technology and Sensors				
The I&TS program funds the technical maturation of low TRL sensors and processing capabilities to rapidly fill current GEOINT sensing capability gaps. To ensure alignment with Congressional intent, urgent Combatant Command (CCMD) requirements, and departmental priorities, the Air Force (AF) established a Headquarters level working group to guide, prioritize, and synchronize these enterprise sensor technology investments The GEOINT Capabilities Working Group (GCWG) reviews developmental technologies in the fourth quarter of each FY to approve and prioritize efforts for the following year. The Program Office is specifically structured to rapidly initiate projects in the execution year to expedite technical maturation and delivery to operational platforms at the speed of technology.						
Additional details are available at the appropriate classification level.						
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$0.000M was expended for civilian pay expenses in this program element, and in FY 2025 \$0.000M is forecast for civilian pay expenses in this program element.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		27.650	24.204	49.765	0.000	49.765
Current President's Budget		22.616	15.865	40.779	0.000	40.779
Total Adjustments		-5.034	-8.339	-8.986	0.000	-8.986
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-5.034	-8.339			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-8.986	0.000	-8.986
Change Summary Explanation						
FY 2024 Congressional mark for unjustified growth (-5.034M).						
FY 2026 reduction to support higher service priorities (-4.013M).						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604257F / Advanced Technology and Sensors				Project (Number/Name) 642001 / Next Gen Sensors Tech Maturation/Risk Reduction			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
642001: Next Gen Sensors Tech Maturation/Risk Reduction	0.000	12.461	8.145	29.924	0.000	29.924	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The NGS-RR program is a platform-agile suite of sensor development and demonstration technologies designed for the best flexibility and capability for an ever-changing scale of ISR missions. NGS-RR furthers maturation and risk reduction of select technologies initiated under I&TS and other low TRL maturation efforts culminating in operational prototype demonstrations. The power behind the NGS-RR program is an open architectural system design that enables rapid third-party software and line replaceable unit insertion/replacement. NGS-RR implements foundational sensor development technologies including the MEDUSA flight demonstration platform, Digital Engineering (DE), Model-Based Systems Engineering (MBSE), and a software environment and repository (AURORA). In FY 2026, NGS-RR will continue flight tests of fully integrated podded payloads, integration of maturation of NAVAIR and other maritime automated target recognition algorithms and support collaborative teaming demonstrations. Demonstrations include, but are not limited to, capabilities developed with funding in the I&TS BPAC, Airborne SIGINT Enterprise PE (0304260F), and Airborne Reconnaissance Systems PE (0305296F).

Additionally, RESOLUTE SENTRY will transition from the AF Research Laboratory to NGS-RR for technical maturation and integration into the first operational platform in FY 2026. RESOLUTE SENTRY is an AI-driven, multi-platform, sense-making tool for predictive analytics and orchestration at the tactical edge. It provides real-time, high-quality detection, identification and tracking to close kill chains and predict adversary activity. The program delivers a platform-agnostic, edge-hostable software solution to ingest and fuse multi-INT data across multiple platforms at the tactical edge. The data will then be used to generate actionable information on the highly contested environment for Blue Force commanders and national decision making. RESOLUTE SENTRY will execute in this PE from FY26 to FY27, then will transition to ARS PE 35206F in FY28. R3 and R4 data will be updated upon award of the follow-on contract.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 0.000M was expended for civilian pay expenses in this program element, and in FY 2025 0.000M is forecast for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Next Gen Sensors Tech Maturation/Risk Reduction	12.461	8.145	12.000
Description: Description: Mold current and future ISR into a platform-agile, non-proprietary, autonomous multi-INT cross cueing solution that is designed based on mission requirements. Sensors will have to penetrate up to highly contested domains and survive to operate. This project will also increase interoperability by developing common standards and interfaces for mission and sensor systems.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604257F / Advanced Technology and Sensors		Project (Number/Name) 642001 / Next Gen Sensors Tech Maturation/Risk Reduction	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
FY 2025 Plans: - Continue development of modular, real-time multi-domain battlespace awareness in highly contested environments with the following activities: -Integrate podded payload consisting of an EO/IR sensor, Agile Condor processor, and an ELINT sensor with scheduled risk reduction flights in late summer. Fully integrated pod scheduled for flight in FY26. Maturation of Birdbox architecture, MAGIC algorithms, and Overlapping Sub-aperture SAR Mode for summer flight demonstration. -Integrate ISAR Mode for use on the aircraft for summer flight demonstration -Adapt two NAVAIR Assisted Target Recognition (ATRs) for Birdbox, enabling immediate AF use -Establish connectivity of NGS-RR algorithms through Birdbox with Network Centric Collaborative Targeting (NCCT) during in-flight demonstration FY 2026 Plans: - RESOLUTE SENTRY will transition from AFRL to NGS-RR for a 2-year tech maturation effort and initial integration into an OAFP. After this effort, RESOLUTE SENTRY is planned to transition to the ARS PE as a program of record. Will continue development of modular, real-time multi-domain battlespace awareness in highly contested environments with the following activities: Flight test of fully integrated podded payload - Will complete transition of Birdbox - Will complete integration of NAVAIR ATRs into Birdbox - Will support Collaborative Teaming demonstration - Will mature existing ATRs for maritime detections and fusion FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increase is due to the transition of RESOLUTE SENTRY from AFRL for technical maturation.					
Title: Resolute Sentry Description: Description: Provide Airborne ISR capability in highly contested environments through software automation. Features under development include dynamic route planning for platform survivability, communications management in denied or degraded conditions, as well as sensor and platform orchestration to keep custody of high value targets across the theater. Designed for low cost integration and mass adoption through Open Mission Systems compatibility and platform agnostic architecture. Digital modeling down to the service level enables Digital Engineering. Created and maintained according to agile software development principles and modern Development, Security and Operations (DevSecOps) pipelines preventing vendor lock, increasing software stability and security, lowering recurring costs. FY 2025 Plans:			-	0.000	17.924

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 642001 / <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
N/A			
FY 2026 Plans: -Will transition software and digital engineering artifacts from AFRL to lifecycle appropriate environment(s) -Will standup DevSecOps and Digital Engineering environment(s) -Will standup government software integration lab -Will update software design materials and technical data package for threshold platform integration -Will conduct operationally relevant flight exercise to demonstrate viability of technology FY 2025 to FY 2026 Increase/Decrease Statement: The increase in funding between FY25 and FY26 supports the follow-on technical maturation of the Resolute Sentry program after transitioning from AFRL.			
Accomplishments/Planned Programs Subtotals		12.461	8.145
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
NGS activities will leverage parallel development activities and integrate them with a risk-informed approach to develop and demonstrate NGS capabilities that meet military needs under operationally-relevant environments and conditions. This program has established a forum of stakeholders, consisting of multiple Other Government Agencies (OGAs), end-users, and MAJCOMs to ensure that the program deliverables are answering identified warfighter needs, to ensure a clear and concise technology transition path. Resolute Sentry is Software Acquisition Pathway designated program. The Minimum Viable Product (MVP) will be version 4.5 release of Resolute Sentry in Q4 FY26. An MVP is not necessarily intended for operational use; it is intended for gaining feedback, though useful capabilities can be transitioned into operations. Software updates will be delivered on at least an annual basis through continuous collaboration. The acquisition strategy is to maximize commercial and national development efforts and investment through multiple contracting methods, including the use of engineering change proposals to modify existing contracts and new contracts that were awarded both competitively or on a sole source basis.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604257F / Advanced Technology and Sensors				Project (Number/Name) 642001 / Next Gen Sensors Tech Maturation/Risk Reduction					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Sense and Sense-making Demonstrator (MEDUSA)	Various	Various: TBD : TBD	-	5.738	Dec 2023	3.796	Nov 2024	5.574	Nov 2025	-		5.574	-	-	-
AURORA	Various	Various: TBD : TBD	-	1.680	Dec 2023	0.970	Nov 2024	2.917	Nov 2025	-		2.917	-	-	-
Digital Engineering (DE), Model Based Systems Engineering (MBSE)	Various	Various: TBD : TBD	-	2.464	Nov 2023	2.538	Nov 2024	2.614	Nov 2025	-		2.614	-	-	-
Resolute Sentry	TBD	Various: TBD : TBD	-	-		-		17.924		-		17.924	-	-	-
Subtotal			-	9.882		7.304		29.029		-		29.029	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
PMA: Other Govt Cost	Various	Various: TBD : TBD	-	2.579	Nov 2023	0.841	Nov 2024	0.895	Nov 2025	-		0.895	-	-	-
Subtotal			-	2.579		0.841		0.895		-		0.895	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	12.461		8.145		29.924		-		29.924	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>						Project (Number/Name) 642001 / <i>Next Gen Sensors Tech Maturation/Risk Reduction</i>			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
NGS Tech Maturation & Risk Reduction																												
Sense and Sense-making Demonstrator (MEDUSA)																												
AURORA																												
Model Based Systems Engineering																												
Resolute Sentry																												
Resolute Sentry																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / Advanced Technology and Sensors	Project (Number/Name) 642001 / Next Gen Sensors Tech Maturation/Risk Reduction

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NGS Tech Maturation & Risk Reduction				
Sense and Sense-making Demonstrator (MEDUSA)	1	2024	4	2030
AURORA	1	2024	4	2030
Model Based Systems Engineering	1	2024	4	2030
Resolute Sentry				
Resolute Sentry	1	2026	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>				Project (Number/Name) 644818 / <i>Imaging and Targeting Support</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
644818: <i>Imaging and Targeting Support</i>	0.000	10.155	7.720	10.855	0.000	10.855	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

In FY 2026, I&TS plans to transition 3 projects (GMTI mode, AIR, RUBBER DUCKIE) to an OAFP, complete development of 2 FY24 projects (BB8, Collaborative Teaming), continue development of 1 FY25 project (ATRIUM) and begin 5 new projects approved by the GCWG in June 2025. Details of the GMTI mode, AIR, RUBBER DUCKIE, BB8, Collaborative Teaming, and ATRIUM projects were provided to Congress previously and are available upon request at the appropriate classification levels. Due to delays in the President's Budget submission, the ATS team can provide the detailed information on FY 2026 projects below. Additional information is available upon request at the appropriate classification levels. Cost and schedule information (R3 and R4) will be updated upon contract award.

For FY 2026, the GCWG Focus Area included:

1. Find, Fix, and Track Group 1-3 UASs.
2. Improve surveillance and reconnaissance (e.g. longer range, greater accuracy, etc.) through cooperative or networked sensors and software.
3. Develop low Size, Weight, Power, and Cost (SWAP-C) scalable multi-INT sensors for small attritable or expendable UASs demonstrated in an autonomy package for leading edge swarms.

The projects planned to initiate in the FY 2026 include:

- AIR for SAR: Extends the FY 2024 Automatic Image Registration (AIR) capability to support Synthetic Aperture Radar (SAR) for an OAFP.
- TALON CEREBRAL: Develop a collaborative, multiple-intelligence, evidence-based target identification tool that generates human-readable information to include measurements, target descriptions, and evidence.
- ABBA: Integrates the previously developed BirdBox capability with Big Iron within the Agile Mission Suite (AMS) Government Reference Architecture to provide a flight ready, rapidly deployable multi-modality sensor exploitation system for multiple OAFPs
- RESOLUTE MINIONS: Develops an airborne, multi-intelligence capability to detection, identify, and track group 1-3 UASs.
- Frontline Perception System: Develops localized mesh networking and data orchestration to enable fusion on small UAS swarms in communication denied environments. Includes multimodal ATRs for swarm platforms and on-board processing for airborne platforms to maintain target custody.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024, 0.000 was expended for civilian pay expenses in this program element, and in FY 2025 0.000 is forecast for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Imaging & Targeting Support (I&TS)	10.155	7.720	10.855

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 644818 / <i>Imaging and Targeting Support</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Description: Corporately prioritized Air Force GEOINT-focused Portfolio of projects to develop and demonstrate next generation airborne sensors and processing technologies to further the art of the possible and/or rapidly transition ISR capabilities (ex: radar improvement, EO/IR, assisted target recognition, autonomous attritable/expendable sensing swarms, multi-INT fusion, ISR Standards, and data mitigation technologies). FY 2025 Plans: Continue to develop, modernize, and demonstrate emerging technologies into transition ready efforts. The following FY23/FY24 efforts continue into FY25: -FY23 project completions: GMTI and AIR -FY24 project completions: Rubber Duckie -FY24 project continuation: Collaborative Teaming, BirdBox Resolute (BB8) -FY25 initiation of GCWG-prioritized projects: ATRIUM FY 2026 Plans: Will continue to develop, modernize, and demonstrate lower TRL projects into transition ready efforts. The following FY24/FY25 effort continuing into FY26: -Transition 3 projects (GMTI Mode, AIR, and RUBBER DUCKIE) to an OAFP -FY24 project completions: Collaborative Teaming, BirdBox Resolute (BB8) -FY25 project continuations: ATRIUM -FY26 initiation: AIR for SAR, TALON CEREBRAL, ABBA, RESOLUTE MINIONS, and Frontline Perception System. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2025 to FY 2026 Increase/Decrease Statement: FY26 increase covers larger total amount than FY25 to complete previous-years' projects, start delayed FY25 GCWG approved projects, and support additional focus area / transition partner			
Accomplishments/Planned Programs Subtotals		10.155	7.720
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / <i>Advanced Technology and Sensors</i>	Project (Number/Name) 644818 / <i>Imaging and Targeting Support</i>
D. Acquisition Strategy The Imaging and Targeting Support efforts are prioritized on an annual basis by the GCWG in accordance with documented AF ISR gaps, DAF integrated development campaigns, and operational partner inputs). The resulting funded efforts are then contracted for and/or executed by various program offices, laboratories, industry, and/or other government agencies. The acquisition strategy is to maximize commercial and national development efforts and investment, while reducing acquisition timelines, through multiple contracting methods, including the use of Engineering Change Proposals, to modify existing and new contracts that were awarded both competitively and on a sole source basis.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604257F / Advanced Technology and Sensors				Project (Number/Name) 644818 / Imaging and Targeting Support					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Aether Spy DSTIC Maturation	SS/CPAF	Northrup Grumman, various : Falls Church, VA	-	2.800	Nov 2023	-		-		-		-	-	-	-
MAGIC Heat	SS/CPFF	BAE Systems : Durham, NC	-	1.548	Nov 2023	-		-		-		-	-	-	-
BirdBox V2 ATR in HCE	SS/CPFF	AFRL, Multiple Vendors : Dayton, OH	-	0.424	Nov 2023	-		-		-		-	-	-	-
BirdBox Resolute (BB8)	SS/CPFF	AFRL, Multiple Vendors : Dayton, OH	-	1.700	Nov 2023	1.262	Apr 2025	-		-		-	-	-	-
Rubber Duckie	SS/CPFF	Classified : Classified	-	1.036	Nov 2023	0.965	Apr 2025	-		-		-	-	-	-
Collaborative Teaming	SS/CPFF	MIT LL : Boston, MA	-	2.039	Dec 2023	3.410	Apr 2025	0.552	Nov 2025	-		0.552	-	-	-
ATRIUM	SS/CPFF	AFRL, Multiple Vendors : Dayton, OH	-	0.075	May 2025	1.783	Apr 2025	2.200	Nov 2025	-		2.200	-	-	-
New Technology Efforts Prioritized by GCWG in 4Q FY24	C/CPFF	Various : Various	-	-		-		5.951	Jan 2026	-		5.951	-	-	-
Subtotal			-	9.622		7.420		8.703		-		8.703	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs (PSC) Other Gvmt Cost	Various	Various : Dayton, OH	-	0.533	Dec 2023	0.300	May 2025	2.152	Dec 2025	-		2.152	-	-	-
Subtotal			-	0.533		0.300		2.152		-		2.152	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604257F / Advanced Technology and Sensors				Project (Number/Name) 644818 / Imaging and Targeting Support				
	Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	10.155		7.720		10.855		-		10.855	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0604257F / Advanced Technology and Sensors					644818 / Imaging and Targeting Support			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Imaging and Targeting Support																												
Bird Box Resolute (BB8)																												
Rubber Duckie																												
GMTI Mode																												
AIR																												
Collaborative Teaming																												
ATRIUM																												
TALON CEREBRAL																												
ABBA																												
AIR for SAR																												
Frontline Perception System																												
RESOLUTE MINIONS																												
GCWG Technology Efforts																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604257F / Advanced Technology and Sensors	Project (Number/Name) 644818 / Imaging and Targeting Support	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Imaging and Targeting Support				
Bird Box Resolute (BB8)	2	2024	1	2026
Rubber Duckie	1	2024	4	2025
GMTI Mode	1	2024	4	2025
AIR	1	2024	4	2025
Collaborative Teaming	2	2024	2	2026
ATRIUM	3	2025	1	2027
TALON CEREBRAL	1	2026	4	2028
ABBA	1	2026	4	2028
AIR for SAR	1	2026	4	2026
Frontline Perception System	1	2026	4	2028
RESOLUTE MINIONS	1	2026	4	2028
GCWG Technology Efforts	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604288F <i>I Survivable Airborne Operations Center (SAOC)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	717.641	1,617.187	0.000	0.000	0.000	-	-	-	-	-	-
646507: <i>Survivable Airborne Operations Center (SAOC)</i>	0.000	717.641	1,617.187	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

SAOC program transitioning from BA04 (PE 0604288F BPAC 646507) to BA05 (PE 0604288F BPAC 656507), System Development and Demonstration (SDD), in FY26.

A. Mission Description and Budget Item Justification

The Survivable Airborne Operations Center (SAOC), E-4C, replaces the aging E-4B fleet, which faces capability gaps, diminishing manufacturing sources, increased maintenance costs, and parts obsolescence as it approaches the end of its serviceable life. SAOC provides the President of the United States (POTUS), the Secretary of Defense (SECDEF), and the Joint Chiefs of Staff (JCS) a worldwide, survivable, and enduring node of the National Military Command System (NMCS) to fulfill national security requirements throughout all stages of conflict. As a command, control and communications center directing US forces, executing emergency war orders and coordinating the activities of civil authorities including national contingency plans, this capability ensures continuity of operations and continuity of government as required in a national emergency or after negation/destruction of ground command and control centers. SAOC fulfills the requirements of the AF Nuclear Mission by providing Nuclear Command, Control and Communications (NC3) capabilities to enable the exercise of authority and direction by the President to command-and control US military nuclear weapons operations.

Program funding supports all activities required to execute development of the SAOC Weapon System to include system development, integration of NC3 and other DoD/AF programs into the SAOC weapon system, test activities, pre-operational product support, and Interim Contractor Support (ICS). Funds also support program office operations, management services (Federally Funded Research and Development Centers [FFRDC], Advisory and Assistance Services [A&AS], etc.), Program Management Administration (PMA), security, facilities, prototyping, equipment, implementation of digital program initiatives, and other required program office capabilities.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024, \$1.540M expended for civilian pay expenses in this program element. In FY 2025, \$4.000M is forecasted for civilian pay expenses in this program element, and in FY2026, \$5.49M is forecasted for civilian pay expenses in this program element.

SAOC program transitioning from BA04 to BA05, System Development and Demonstration (SDD), in FY26.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604288F I Survivable Airborne Operations Center (SAOC)				
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		888.829	1,687.500	1,841.765	0.000	1,841.765
Current President's Budget		717.641	1,617.187	0.000	0.000	0.000
Total Adjustments		-171.188	-70.313	-1,841.765	0.000	-1,841.765
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-144.765	-70.313			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-26.423	0.000			
• Other Adjustments		0.000	0.000	-1,841.765	0.000	-1,841.765
Change Summary Explanation						
FY 2025 Congressional reductions consist of -70.313M for contract award delay						
FY 2024 Congressional reductions consist of -12.657M for Test and evaluation excess to need; -116M for-Excess test aircraft; -15.919M for Management services over estimation						
FY 2026 SAOC program transitioning from BA04 to BA05. PE 0604288F Project 656507						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: SAOC				717.641	1,617.187	0.000
Description: The SAOC weapon system is comprised of a Commercial Derivative Aircraft (CDA), mission system, and ground support systems. The CDA will be hardened to protect against nuclear and electromagnetic effects and modified with an aerial refueling capability to enable sustained airborne operations. The mission system will integrate secure communications and planning capabilities on modern information technology (IT) infrastructure based on a Modular Open System Approach (MOSA). The ground systems include aircrew trainers, mission crew trainers, maintenance training devices, ground support equipment, test and sustainment system integration laboratories, and other ground systems to enable the operations, sustainment, and future modifications of the SAOC weapon system across the lifecycle.						
FY 2025 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604288F <i>I Survivable Airborne Operations Center (SAOC)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
-Continue executing Engineering and Manufacturing Development (EMD) design activities to include system engineering analysis, trade studies, system/subsystem requirement decomposition and functional analysis, and weapon system design -Complete purchases of EMD Commercial Aircraft -Continue supporting development, modernization, and delivery of required NC3, C3, Cryptographic, OA/OMS, and other capabilities to ensure systems are sustainable and available to integrate into the EMD design and overall SAOC Weapon System -Continue to develop and implement the infrastructure, tools, and training necessary for execution of EMD activities in the SAOC Integrated Digital Environment , which will enable the SAOC Program Office to execute and support the development and lifecycle sustainment of the SAOC Weapon System -Continue T&E planning and preparation activities including manning, procurement of test equipment, training, and facility modifications; begin early functional testing at the component and LRU levels; begin development of the T&E SIL -Continue program office manning growth-path required to support the SAOC system development -Initiate Product Support Business Case Analysis (PS-BCA) to evaluate Product Support strategies to achieve SAOC capabilities and affordability -Initiate a follow on Supply Chain Risk Management Analysis and Illumination -Continue coordination activities with appropriate stakeholders to ensure that SAOC requirements are properly accounted for, and integrated, within facilities currently under development FY 2026 Plans: FY2026 work transitioned to BA05 0604288F FY 2025 to FY 2026 Increase/Decrease Statement: The SAOC program is transitioning from BA04 to BA05.				
Accomplishments/Planned Programs Subtotals		717.641	1,617.187	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604288F I Survivable Airborne Operations Center (SAOC)						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• MILCON 32021F: SAOC MILCON	50.100	30.000	-	-	-	-	-	-	-	-	-
• RDTE 07 0303001F: Family of Advanced BLoS Terminals (FAB-T)	91.369	2.607	-	-	-	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy											
Based on the Acquisition Strategy approved by Under Secretary of Defense for Acquisition and Sustainment on 30 June 2022, SAOC entered the acquisition pathway at Milestone B and awarded a competitive Development contract with Production and Interim Contractor Support (ICS) Options. This contract requires the Prime contractor to buy the required aircraft, bring each aircraft to a common configuration, make required modifications, develop, and integrate the mission system into each aircraft, provide required ground support systems and conduct contract support operations for fielded systems until the Operations and Support Phase.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
3600 / 4						PE 0604288F / Survivable Airborne Operations Center (SAOC)				646507 / Survivable Airborne Operations Center (SAOC)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Prime - EMD	C/CPIF	Sierra Nevada Corporation : Englewood, CO	-	608.351	Apr 2024	1,427.734	Oct 2024	-		-		-	-	-	-
Mission Systems/ Subsystems Development	C/Various	Various : TBD	-	54.291	Jan 2024	108.571	Jan 2025	-		-		-	-	-	-
Subtotal			-	662.642		1,536.305		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Mission Support	C/Various	Various : Bedford, MA : Hanscom AFB, MA	-	19.982	Oct 2023	33.743	Oct 2024	-		-		-	-	-	-
Direct Cite Civilian Pay	TBD	Not specified. : Hanscom AFB, MA	-	1.544	Oct 2023	4.000	Oct 2024	-		-		-	-	-	-
Subtotal			-	21.526		37.743		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test and Evaluation	C/CPIF	Not specified. : TBD	-	9.561	Oct 2023	8.602	Oct 2024	-		-		-	-	-	-
Subtotal			-	9.561		8.602		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604288F / Survivable Airborne Operations Center (SAOC)						Project (Number/Name) 646507 / Survivable Airborne Operations Center (SAOC)			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
FFRDC	SS/CPFF	Various : Bedford, MA : Hanscom AFB, MA	-	10.591	Oct 2023	10.650	Oct 2024	-		-		-	-	-	-
A&AS	C/CPFF	Various : Bedford, MA : Hanscom AFB, MA	-	8.965	Jul 2024	15.497	Oct 2024	-		-		-	-	-	-
PMA - Other	Various	Various : Bedford, MA : Hanscom AFB, MA	-	4.356	Oct 2023	8.390	Oct 2024	-		-		-	-	-	-
Subtotal			-	23.912		34.537		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	717.641		1,617.187		-		-		-	-	-	N/A
Remarks Product Development: -FY 2025 increased in Directed Mission Systems due to FAB-T terminal purchases -FY 2025 increase in Prime Contract due to the continued ramp-up execution of the SAOC EMD Contract Support: -FY 2025 increase in DCA continues office manning growth path required to support SAOC EMD execution Test and Evaluation (T&E): -FY 2025 decrease in T&E is due to facility modifications completing.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 4								PE 0604288F / Survivable Airborne Operations Center (SAOC)								646507 / Survivable Airborne Operations Center (SAOC)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Survivable Airborne Operations Center Development																												
Source Selection																												
Milestone B																												
EMD																												
EMD CDA Deliveries Complete																												
SRR/SFR																												
Preliminary Design Phase																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604288F / Survivable Airborne Operations Center (SAOC)	Project (Number/Name) 646507 / Survivable Airborne Operations Center (SAOC)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Survivable Airborne Operations Center Development				
Source Selection	1	2024	2	2024
Milestone B	3	2024	3	2024
EMD	3	2024	4	2030
EMD CDA Deliveries Complete	4	2025	4	2025
SRR/SFR	2	2025	1	2026
Preliminary Design Phase	4	2025	1	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	35.952	10.485	3.558	0.000	3.558	-	-	-	-	-	-
64317A: <i>64317A Technology Transfer Add</i>	0.000	0.113	0.000	0.000	0.000	0.000	-	-	-	-	-	-
646003: <i>Partnership Intermediary Agreement(s)</i>	0.000	3.384	10.485	3.558	0.000	3.558	-	-	-	-	-	-
646030: <i>AFwerX</i>	0.000	32.455	0.000	0.000	0.000	0.000	-	-	-	-	-	-

Note

In FY 2025, the entirety of Project 646030, AFWERX efforts and Project 64317A, Technology Transfer Add in PE 0604317F, Technology Transfer, were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.

A. Mission Description and Budget Item Justification

Technology Transfer is a critical strategy for the NDS and DoD that makes the best possible use of national scientific, technical resources and information to enhance the effectiveness of DoD forces and warfighting capability systems. The Air Force Technology Transfer and Transition (T3) program oversees all Air Force inventions/patents and technology transfer agreements (CRADAs, EPAs, CTAs, MTAs, etc). Over its history, Tech Transfer has provided a great return on investment (over 100 to 1), as the agreements themselves do not provide DoD funding to companies/non-traditionals, but serve as a way for the DoD to partner together and with industry to achieve a common goal. The only major costs to increasing this force multiplier are staff and legal support resources (they are not contracts).

Since 2012 the Air Force Tech Transfer & Transition Program Office has managed two OSD-level Partnership Intermediaries (PIAs), TechLink & Miltech (Montana State University), as well as helped the Office of the Deputy Assistant Secretary of the Air Force for Science, Technology, and Engineering (SAF/AQR) in the management and oversight of the 16 Air Force PIAs (as of FY25). The 646003 project resources the management of DoD/AF PIAs, the development of data to support the Defense Technology Transfer Information System (DTTIS), invention disclosure & patent processing, program management activities, training, and support to the Technology Executive Officer (TEO). This program impacts virtually all technology fields, including the DoD Critical Technology Areas, and facilitates mechanisms to help achieve the operational imperatives via Tech Transfer as captured in the Annual DoD Technology Transfer Report.

The AFWERX mission (relevant to Projects 64317A and 646030) is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), AFVentures (the dual-use expanded technology base), and Prime (technology transitions) to scale and accelerate the capability. Funding in this project supports AFWERX research and development, innovation hubs, and information technology, public affairs, and marketing. In FY 2025, the entirety of Project 646030, AFWERX efforts and Project 64317A, Technology Transfer Add in PE 0604317F, Technology Transfer, were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0604317F I Technology Transfer				
This program element may include necessary civilian pay expenses required to manage, execute, and deliver Technology Transfer capabilities. 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.						
This program element may include necessary expenses to support the operation and maintenance of facilities to manage, execute, and deliver science and technology capabilities.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		26.638	3.485	3.572	0.000	3.572
Current President's Budget		35.952	10.485	3.558	0.000	3.558
Total Adjustments		9.314	7.000	-0.014	0.000	-0.014
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		10.500	7.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		-1.186	0.000	-0.014	0.000	-0.014
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 646003: Partnership Intermediary Agreement(s)						
Congressional Add: Program Increase - partnership intermediary program						
Congressional Add: Program Increase - Generating Rural Innovation for National Defense						
Congressional Add Subtotals for Project: 646003						
Project: 646030: AFwerX						
Congressional Add: Program increase - Innovative Solutions to Enhance Warfighter Readiness						
Congressional Add: Program increase - Autonomous Reduced-Emissions Supply Delivery UAS						
Congressional Add: Program increase - Partnership Intermediary Program						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0604317F I Technology Transfer	
Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2024	FY 2025
Congressional Add: Program increase - Laboratory Technology Transfer		3.872	0.000
Congressional Add Subtotals for Project: 646030		10.164	0.000
Congressional Add Totals for all Projects		10.164	7.000
Change Summary Explanation FY 2026 decreased compared to FY 2025 by \$0.014 million due to programmatic adjustments within the Science and Technology portfolio			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>				Project (Number/Name) 64317A / <i>64317A Technology Transfer Add</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
64317A: <i>64317A Technology Transfer Add</i>	0.000	0.113	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The AFWERX mission is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), AFVentures (the dual-use expanded technology base), and Prime (technology transitions) to scale and accelerate the capability. Funding in this project supports AFWERX research and development, innovation hubs, and information technology, public affairs, and marketing. The AFWERX Program reduces risk in emerging technology markets by partnering with industries through Prime investments and providing access to Government analysis, testing and certification capabilities. Prime investments focus on Government-industry partnerships to influence and militarize emerging commercial capabilities to ensure US competitive advantage in key technology areas. The Spark mission is to inspire and enable Airmen and Guardians to unleash their collective talent and ingenuity. Spark connects innovators using virtual collaboration, immersive training, and networking opportunities to inspire ideas and cultivate more lethal force. By connecting operators closer to acquisition processes, Spark provides both a voice and a conduit to accelerate powerful ideas into game-changing operational realities. This focus helps guide technologies through transition across the valley from idea to scaled and sustained capability.												
Beginning in FY 2024, PE 0604317F, Technology Transfer, Project 64317A, Technology Transfer Add efforts were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Civilian Pay									0.113	0.000	0.000	
Description: Provide professional government civilian workforce in support of AFWERX programs and activities.												
FY 2025 Plans: Not applicable.												
FY 2026 Plans: Not applicable.												
Accomplishments/Planned Programs Subtotals									0.113	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions)												
N/A												
Remarks												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 64317A / 64317A <i>Technology Transfer Add</i>
D. Acquisition Strategy Not applicable		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604317F / Technology Transfer				Project (Number/Name) 64317A / 64317A Technology Transfer Add					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Acquisition Workforce	Allot	Not specified. : TBD	-	0.113		-		-		-		-	-	-	-
Subtotal			-	0.113		-		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.113		-		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)	
3600 / 4	PE 0604317F / <i>Technology Transfer</i>	64317A / <i>64317A Technology Transfer Add</i>	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Civilian Pay																												
Civilian Pay																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / Technology Transfer	Project (Number/Name) 64317A / 64317A Technology Transfer Add	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Civilian Pay				
Civilian Pay	1	2024	4	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>				Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
646003: <i>Partnership Intermediary Agreement(s)</i>	0.000	3.384	10.485	3.558	0.000	3.558	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Since 2012 the Air Force Tech Transfer & Transition Program Office has managed two OSD-level Partnership Intermediaries (PIAs), TechLink & Miltech (Montana State University), as supported the Office of the Deputy Assistant Secretary of the Air Force for Science, Technology, and Engineering (SAF/AQR) in the management and oversight of the 16 Air Force PIAs (as of FY23). The 646003 project resources the management of DoD/AF PIAs, the development of data to support the Defense Technology Transfer Information System (DTTIS), invention disclosure & patent processing, program management activities, training, and support to the Technology Executive Officer (TEO). This program impacts virtually all technology fields, including our Critical Technology Areas, and non-funded mechanisms to help achieve the operational imperatives via Tech Transfer as captured in the Annual DoD Technology Transfer Report. Technology Transfer is a critical strategy for the National Defense Strategy and DoD that makes the best possible use of national scientific, technical resources and information to enhance the effectiveness of DoD forces and warfighting capability systems.

Enabled by the TechLink PIA, TechLink brokered 80% of DoD license agreements over the past 5 years, with 90% of them being with small businesses. TechLink has also facilitated over 2,000 DoD T2 agreements since 1999 and has enabled the conversion of lab inventions into realized products and services that bolster the US Defense Innovation Ecosystem. Throughout FY24, TechLink facilitated 77 metric-related agreements between the DoD and industry. An incredible amount of activity driven by TechLink's business units and cross functional teams enable the achievement of technology transfer success for the Air Force and DoD.

Since 2004, Montana State University's MilTech has performed over 600 technology acceleration and transition projects for all DoD Services, OSD, Joint and Special Programs. Additionally, MilTech has partnered with all DoD Services for over twenty years to support efforts such as electronic warfare, medical technologies and body armor projects and has been selected as the permanent bi-annual host of the Interservice Body Armor Working Group (IBAWG) event. Montana State University's MilTech has been rated as a Top Ten Veteran Friendly university and has supported MilTech's 20 years of successful technology transitions that protect Soldiers, Sailors, Airmen, Marines, and Guardians.

Fundamentally, the Air Force Technology Transfer and Transition Program Office oversees all AF inventions/patents and technology transfer agreements. This project includes the management of DoD/AF PIAs, invention disclosure & patent processing, program management activities, training, support to the Technology Executive Officer (TEO), and support of the Defense Technology Transfer Information System (DTTIS). This DTTIS platform collects and manages technology transfer activities. Phase I of the DTTIS initiative focuses on deploying the system for use by the DAF Tech Transfer office. DTTIS is projected to provide an approximately 6.33 million in annual cost avoidance across the DAF. As of June 2025, DTTIS has received its Authorization to Operate (ATO) and went live in October 2024.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Technology Transfer	3.384	3.485	3.558

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>		Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
Description: Enhance and expand transfer of technologies between DoD and the commercial sector.					
FY 2025 Plans: - Continue implementing new cost-effective approaches to further increase and accelerate transfer of technologies developed at DoD laboratories and facilitate their transition to the warfighter. - Continue evaluation of and market DoD laboratory inventions and broker technology transfer agreements/Cooperative Research and Development Agreements (CRADAs), to include commercial licenses, that will support the US defense mission and benefit the US economy. - Continue to engage with the innovative capabilities of non-traditional defense contractors in developing and commercializing new dual-use products and services. Pursue additional engineering sample efforts through OSD and AF PIAs while better aligning those efforts with AF capability development pipelines. Increased activities in PIAs is expected due to the "One Lab, Two Services" construct. - Initiate DTTIS capability expansion across multiple services within the DoD. This expansion will streamline technology transfer protocols, leading to enhanced efficiency, standardized procedures, increased inter-service collaboration, and reduced duplication of efforts.					
FY 2026 Plans: - Continue with expanded implementation of innovative and cost-effective approaches to accelerate the transfer and transition of technologies developed at DoD, including the development and deployment of AI tools and capability. - Continue evaluation of DoD inventions and intellectual property and facilitation of T2 agreements, focusing on license agreements and CRADAs around dual use technologies. - Continue expanding nationwide marketing program to further engage the industrial base around T2 partnership opportunities. - Continue the growth and expansion of training and education efforts through development of new stakeholder and topic-based training modules. - Continue recurring assessments of the economic and warfighter impacts of DoD T2 activities and expand survey and research capabilities to enable operational efficiency.					
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increased compared to FY 2025 by \$0.073 million to align programming with execution.					
Accomplishments/Planned Programs Subtotals			3.384	3.485	3.558
			FY 2024	FY 2025	
Congressional Add: Program Increase - partnership intermediary program			0.000	2.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>
	FY 2024	FY 2025
FY 2024 Accomplishments: Not applicable		
FY 2025 Plans: Conduct congressionally directed efforts.		
Congressional Add: Program Increase - Generating Rural Innovation for National Defense	0.000	5.000
FY 2024 Accomplishments: Not applicable		
FY 2025 Plans: Conduct congressionally directed efforts.		
Congressional Adds Subtotals	0.000	7.000

C. Other Program Funding Summary (\$ in Millions)
N/A

Remarks
N/A

D. Acquisition Strategy
This effort uses a Partnership Intermediary Agreement (PIA) with TechLink at Montana State University. Through this agreement TechLink helps the Department of Defense to establish licensing and other technology transfer agreements with US industry. The effort is run through the Air Force Research Laboratory/Strategic Partnering office at Wright Patterson Air Force Base.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604317F / Technology Transfer						Project (Number/Name) 646003 / Partnership Intermediary Agreement(s)			
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
License DoD inventions for conversion into new products and services	PO	TechLink : Bozeman, MT	-	3.384	Dec 2023	3.485	Dec 2024	3.558		-		3.558	-	-	-
Congressional Add-partnership intermediary program	PO	MilTech or APEX : Bozeman - Dayton	-	-		2.000		-		-		-	-	-	-
Congressional Add - Generating Rural Innovation for National Defense	PO	APEX : Dayton, OH	-	-		5.000		-		-		-	-	-	-
Subtotal			-	3.384		10.485		3.558		-		3.558	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	3.384		10.485		3.558		-		3.558	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4			R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>		
			Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>		

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Partnership Intermediary																												
Tech Transfer Partnership Intermediary																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Partnership Intermediary</i>				
Tech Transfer Partnership Intermediary	1	2024	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>				Project (Number/Name) 646030 / <i>AFwerX</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
646030: <i>AFwerX</i>	0.000	32.455	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AFWERX mission is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), AFVentures (the dual-use expanded technology base), and Prime (technology transitions) to scale and accelerate the capability. Funding in this project supports AFWERX research and development, innovation hubs, and information technology, public affairs, and marketing. The AFWERX Program reduces risk in emerging technology markets by partnering with industries through Prime investments and providing access to Government analysis, testing and certification capabilities. Prime investments focus on Government-industry partnerships to influence and militarize emerging commercial capabilities to ensure US competitive advantage in key technology areas. The Spark mission is to inspire and enable Airmen and Guardians to unleash their collective talent and ingenuity. Spark connects innovators using virtual collaboration, immersive training, and networking opportunities to inspire ideas and cultivate more lethal force. By connecting operators closer to acquisition processes, Spark provides both a voice and a conduit to accelerate powerful ideas into game-changing operational realities. This focus helps guide technologies through transition across the valley from idea to scaled and sustained capability.

Beginning in FY 2024, PE 0604317F, Technology Transfer, Project 646030, AFWERX efforts were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: AFWERX	22.291	0.000	0.000
Description: Transition affordable and accelerated capabilities by teaming innovative technology developers with Airmen and Guardian talent.			
FY 2025 Plans: PE 0604317F, Technology Transfer, Project 646030, AFWERX efforts were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.			
FY 2026 Plans: Not Applicable			
FY 2025 to FY 2026 Increase/Decrease Statement: Not applicable			
Accomplishments/Planned Programs Subtotals	22.291	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force								Date: June 2025			
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>			Project (Number/Name) 646030 / <i>AFwerX</i>				
						FY 2024	FY 2025				
Congressional Add: Program increase - Innovative Solutions to Enhance Warfighter Readiness						1.936	0.000				
FY 2024 Accomplishments: Conducted Congressionally directed effort											
FY 2025 Plans: Not applicable											
Congressional Add: Program increase - Autonomous Reduced-Emissions Supply Delivery UAS						1.936	0.000				
FY 2024 Accomplishments: Conducted Congressionally directed effort											
FY 2025 Plans: Not applicable											
Congressional Add: Program increase - Partnership Intermediary Program						2.420	0.000				
FY 2024 Accomplishments: Conduct Congressionally directed effort											
FY 2025 Plans: Not applicable											
Congressional Add: Program increase - Laboratory Technology Transfer						3.872	0.000				
FY 2024 Accomplishments: Conduct Congressionally directed effort											
FY 2025 Plans: Not applicable											
Congressional Adds Subtotals						10.164	0.000				
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 04 0604009F: AFWERX Prime	-	-	-	-	-	-	-	-	-		
Remarks											
D. Acquisition Strategy											
Not Applicable.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>						Project (Number/Name) 646030 / <i>AFwerX</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Core Operations	Various	Various : Various	-	10.630		-		-		-		-	-	-	-
Spark Operations	Various	Various : Various	-	5.198		-		-		-		-	-	-	-
Prototype & Transition	Various	Various : Various	-	1.450		-		-		-		-	-	-	-
Innovation Hubs	Various	Various : Various	-	3.177		-		-		-		-	-	-	-
Program increase - innovative solutions to enhance warfighter readiness	Various	Various : Various	-	1.936		-		-		-		-	-	-	-
Program increase - laboratory technology transfer	Various	Various : Various	-	3.872		-		-		-		-	-	-	-
Program increase - partnership intermediary program	Various	Various : Various	-	2.420		-		-		-		-	-	-	-
Program increase - autonomous reduced-emissions supply delivery	Various	Various : Various	-	1.936		-		-		-		-	-	-	-
Subtotal			-	30.619		-		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Acquisition Workforce	Allot	Various : TBD	-	1.836		-		-		-		-	-	-	-
Subtotal			-	1.836		-		-		-		-	-	-	N/A
			Prior Years	FY 2024	FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	32.455		-		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)	
3600 / 4	PE 0604317F / <i>Technology Transfer</i>	646030 / <i>AFwerX</i>	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
AFWERX																												
AFWERX																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646030 / <i>AFwerX</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>AFWERX</i>				
AFWERX	1	2024	4	2024

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0604327F I Hard and Deeply Buried Target Defeat System (HDBTDS) Program							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	14.866	139.408	144.143	0.000	144.143	-	-	-	-	-	-
645341: Direct Strike Penetrator Systems	0.000	14.866	139.408	144.143	0.000	144.143	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Direct Strike Penetrator Systems program develops and modifies a family of advanced precision-guided penetrator munitions to include evaluation of integrated technologies for the development/integration of advanced position, navigation, and timing (PNT) capabilities (i.e., Global Positioning System (GPS), non-GPS, optical, passive, active, etc.) and smart fuze systems, and all penetrator components, that will provide the Air Force with improved ability to attack Hard and Deeply Buried Targets (HDBT), such as bunker and tunnel facilities, using air-to-surface conventional munitions. Systems developed include, but are not limited to Massive Ordnance Penetrator (MOP), GBU-72 Advanced 5,000-lb Penetrator Weapon System (A5K), and Section 804 Rapid Prototype/Rapid Fielding activities. Systems developed will be integrated onto current and future platforms to reduce the number of weapons required to hold HDBTs at risk and will result in more targets engaged per mission flown. Direct Strike Penetrators will provide critical global strike capability not met by inventory conventional weapons and will hold at risk the best protected high value assets essential to an enemy's war fighting ability. The project also provides an opportunity to quickly insert emerging technologies into existing and developing aircraft munitions and fuzes.

A Hard Target Munitions (HTM) Analysis-of-Alternatives (AoA) was conducted in 2014 to determine the best weapons and/or development efforts for addressing the HDBT mission area. The HTM AoA determined that it was necessary to develop a family of HTMs in order to apply effects to the entire range of HDBT sets. The Air Force is using the AoA to develop, produce and modify HDBT weapons identified as the most effective and affordable. Modeling and simulation is used to assess and characterize current inventory and to drive design and explore the utility of new classes of penetrator munitions.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 0.0M was expended for civilian pay expenses in this program element. In FY 2025 and FY 2026, \$1.5M each is forecasted for civilian pay expenses in this program element.

This program leverages digital acquisition tenets of open, agile, and digital. Common component development, in collaboration with other weapon systems, to reduce redundant costs between systems with similar subsystems requirements. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604327F I Hard and Deeply Buried Target Defeat System (HDBTDS) Program				
This effort includes design, development, test, integration, and implementation of appropriate modular open systems approach, related components, and efforts, such as, but not limited to electrical, logical, and physical interfaces defined in relevant Open System Architecture (OSA) standards. This approach allows modular and severable subsystems, to include those that are software-defined, at the appropriate level to be incrementally added, removed, or replaced throughout the life cycle.						
The FY 2026 request was reduced by \$0.131 million for civilian personnel to optimize the workforce in compliance with Executive Order 14210, "Implementing the President's Department of Government Efficiency Workforce Optimization Initiative."						
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		19.266	154.417	48.300	0.000	48.300
Current President's Budget		14.866	139.408	144.143	0.000	144.143
Total Adjustments		-4.400	-15.009	95.843	0.000	95.843
• Congressional General Reductions		0.000	-15.009			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-3.716	0.000			
• SBIR/STTR Transfer		-0.684	0.000			
• Other Adjustments		0.000	0.000	95.843	0.000	95.843
Change Summary Explanation						
FY 2024 - Reprogrammed 3.716M to SDBII via BTR, 0.684M SBIR Tax						
FY 2025 - Congressional Mark (15.009M) Unjustified Growth						
FY 2026 - increase for MOP MOD and Next Generation Penetrator efforts						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Next Generation Penetrator				0.000	120.797	73.716

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604327F <i>I Hard and Deeply Buried Target Defeat System (HDBTDS) Program</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: Next Generation Penetrator (NGP) is the development and demonstration of an advanced large penetrator concept to augment Combatant Command (CCMD) capability against hard and deeply buried targets. Utilize subscale, sled, and phenomenology testing in concert with modeling and simulation efforts to design necessary components that meet required lethality, accuracy, survivability, and penetration performance parameters. Culminating in full scale testing and delivery of prototype technical data packages for both a warhead concept and guidance system. FY 2025 Plans: Modeling and simulation for weapon design development, test & evaluation, long lead target design/construction, and ground test support for subscale and full-scale test execution. FY 2026 Plans: Execute varied validation activities to include: modeling and simulation, test and evaluation, ground test support for subscale sled testing and full-scale static testing. FY 2025 to FY 2026 Increase/Decrease Statement: Funding decrease from FY2025 to FY2026 as prototype design work and validation activities to include modeling and simulation as well as sub-scale ground testing ramp down and FY2026 will finish out ground sub-scale testing and to execute full-scale static test.				
Title: Massive Ordnance Penetrator (MOP) Modification (Mod) Description: Modification of Smart Fuze functionality to enhance MOP weapon performance, holding additional hard and deeply buried targets (HDBT) at risk in multiple CCMD. Construct relevant HDBTs for testing. Execute MOP testing in support of modification efforts to include sub-scale and full-scale ground and flight tests. Analyze MOP weapon effectiveness. FY 2025 Plans: Continue extensive target build(s) and test & evaluation of MOP Mod for enhanced capability as well as accuracy enhancement efforts to hold HDBTs at risk. FY 2026 Plans: Efforts to construct MS-34 Target. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase to construct MS-34 Target.		14.616	18.611	70.427
Title: Advanced 5,000 lb (A5K) Penetrator		0.250	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604327F I Hard and Deeply Buried Target Defeat System (HDBTDS) Program							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Description: GBU-72 Advanced 5,000 lb (A5K) Penetrator is an improved 5,000 lb class penetrator to address capability gaps identified in the HTM AoA. Conduct A5K design, development, integration, modeling and simulation, and testing to improve performance against increasingly hardened targets. This effort utilizes existing and improved technologies to field an integrated penetrator weapon system to include: an improved penetrator warhead, a smart fuze system that can detect layers/voids, and a modified Joint Direct Attack Munition (JDAM) tail kit for all weather, precision guidance, navigation, and control. FY 2025 Plans: N/A FY 2026 Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: N/A												
Accomplishments/Planned Programs Subtotals										14.866	139.408	144.143
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• PAAF 01 353190: Massive Ordnance Penetrator (MOP)	1.250	8.566	0.000	-	0.000	-	-	-	-	-	-	
• PAAF 01 353020: General Purpose Bombs	107.281	114.616	190.820	-	190.820	-	-	-	-	-	-	
Remarks Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.												
E. Acquisition Strategy MOP MOD utilizes contracts managed by government partners such as the Defense Threat Reduction Agency and White Sands Missile Range for target construction and test support. MOP MOD establishes sole source cost type contracts for flight test support, modeling and simulation activities, and software improvements to increase performance of accuracy and lethality within the MOP weapon system. The initial GBU-72/A5K penetrator design was accomplished through modeling, simulation, and analysis producing potential designs. The designs were developed based on the performance parameters of survivability, lethality, accuracy and penetration. The Government determined the optimum A5K design to then manufacture												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604327F I Hard and Deeply Buried Target Defeat System (HDBTDS) Program	
production representative prototypes to include warheads, fuzes and modified JDAM kits. These assets will be used to conduct and successfully complete qualification testing and integration.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604327F / <i>Hard and Deeply Buried Target Defeat System (HDBTDS) Program</i>				Project (Number/Name) 645341 / <i>Direct Strike Penetrator Systems</i>					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MOP Modification and Integration	SS/ Various	Boeing : St Louis, MO	0.000	-		1.885	Feb 2026	-		-		-	-	-	-
Next Generation Penetrator Product Development	Various	Not specified. : TBD	0.000	-		107.387	Aug 2025	20.224	Mar 2026	-		20.224	-	-	-
Subtotal			0.000	-		109.272		20.224		-		20.224	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MOP System Contractor Support	MIPR	DOTC : Albuquerque, NM	0.000	2.143	Dec 2023	1.000	Oct 2024	-		-		-	-	-	-
A5K System T&E Contractor Support	MIPR	DOTC/ARA/NGIS : Albuquerque, NM	0.000	-		-		-		-		-	-	-	-
A5K System T&E Government Support	MIPR	MCAAP : McAlester, OK	0.000	-		-		-		-		-	-	-	-
NGP Government Support (LAP/Energetic)	MIPR	MCAAP : McAlester, OK	0.000	-		0.000	Mar 2025	4.554	Feb 2026	-		4.554	-	-	-
NGP DCA Civ Pay	Allot	AFLCMC/EBD : Eglin AFB, FL	0.000	-		1.451	Mar 2025	1.501	Mar 2026	-		1.501	-	-	-
Subtotal			0.000	2.143		2.451		6.055		-		6.055	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MOP Test & Evaluation	Various	AFLCMC : Eglin, Holloman, Edw, FL	0.000	4.419	Dec 2023	3.923	Feb 2026	-		-		-	-	-	-
MOP Target Construction and Instrumentation	Various	DTRA : Albuquerque, NM	0.000	6.804	Jan 2024	8.950	Jul 2025	70.427	Mar 2026	-		70.427	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
3600 / 4						PE 0604327F / Hard and Deeply Buried Target Defeat System (HDBTDS) Program				645341 / Direct Strike Penetrator Systems					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
A5K Developmental Test & Evaluation	Various	96 TW, 780 TS : Eglin, Holloman, FL	0.000	0.225	Mar 2024	-		-		-		-	-	-	-
A5K Operational Test & Evaluation	Various	96 TW, Det 1 : Eglin, WSMR, FL	0.000	-		-		-		-		-	-	-	-
NGP Test & Evaluation	Various	Various : Various	0.000	-		9.620	Aug 2025	38.965	Apr 2026	-		38.965	-	-	-
Subtotal			0.000	11.448		22.493		109.392		-		109.392	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MOP Program Support Costs	Various	AFLCMC/EBD : Eglin AFB, FL	0.000	1.250	Dec 2023	2.853	Dec 2024	-		-		-	-	-	-
A5K Program Support Costs	Various	AFLCMC/EBD : Eglin AFB, FL	0.000	0.025	Nov 2023	-		-		-		-	-	-	-
Next Generation Penetrator Program Support Costs	Various	ALFCMC/EBD : Eglin AFB, FL	0.000	-		2.339	Jul 2025	8.472	Dec 2025	-		8.472	-	-	-
Subtotal			0.000	1.275		5.192		8.472		-		8.472	-	-	N/A
Remarks															
MOP Modification program support costs funding increased to support additional testing activities.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	14.866		139.408		144.143		-		144.143	-	-	N/A
Remarks															
Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.															
MOP Target Construction & Development increased due to target set requirements.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604327F / Hard and Deeply Buried Target Defeat System (HDBTDS) Program						Project (Number/Name) 645341 / Direct Strike Penetrator Systems			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Direct Strike Penetrator Systems																												
MOP Modification Analysis and Testing																												
A5K Design, Development and Testing																												
Next Generation Penetrator Prototype Demonstration including Modeling and Simulation, Design, Product Development, and Test																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604327F / Hard and Deeply Buried Target Defeat System (HDBTDS) Program	Project (Number/Name) 645341 / Direct Strike Penetrator Systems	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Direct Strike Penetrator Systems				
MOP Modification Analysis and Testing	1	2024	4	2027
A5K Design, Development and Testing	1	2024	2	2025
Next Generation Penetrator Prototype Demonstration including Modeling and Simulation, Design, Product Development, and Test	3	2025	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604336F / <i>Nuclear Delivery Systems Prototyping</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	39.079	56.926	0.000	56.926	-	-	-	-	-	-
643360: <i>Prototyping</i>	0.000	0.000	39.079	56.926	0.000	56.926	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Effective FY 2026, the entirety of Program Element 0604336F will transfer from Budget Activity 5 (System Development and Demonstration) to Budget Activity 4 (Advanced Component Development and Prototypes) to more appropriately align funding for this program to prototype development and testing activities, enabling rapid transition to a fielded system.

A. Mission Description and Budget Item Justification

The Air-delivered Nuclear Delivery System project addresses a United States Strategic Command capability gap resulting from a congressionally directed study which led to endorsement of the Department of Defense's Deputy's Management Action Group and initiation of this project. The Department of Air Force is working with the Department of Energy's National Nuclear Security Administration and its National Laboratories to quickly develop and demonstrate a prototype Air-Delivered system based on fielded technologies to close this gap in the near term. The project requires close Department of Air Force and Department of Energy interagency coordination to produce a prototype that will enable rapid transition to a fielded system.

Early development will include Modeling and Simulation analysis of several Nuclear Explosive Package options to refine the proposed Nuclear Explosive Package. The Air-Delivered Nuclear Delivery System must meet nuclear weapon's environmental standards from storage to weapon detonation, while meeting reliability and target defeat requirements.

The Air Force will provide test resources to include ground test facilities, F-15E test aircraft, and B-2 test aircraft, and will work with the aircraft Program Offices to identify aircraft integration requirements including any potential Operational Flight Program software and hardware changes. The Air Force will procure and provide the National Nuclear Security Administration with the components necessary to produce Prototype Weapon Assemblies for capturing environments and demonstrating functionality in high-fidelity ground and air tests. Ground tests may include static ejection, vibration and thermal, cable pull-down, sled tests, and other environments testing. Flight tests will be performed by Air Force F-15E developmental flight test aircraft, with final prototype demonstrations planned to fly on B-2 aircraft. Considerations in the development of the prototype include nuclear surety, maintenance and logistics, refinement of requirements (Military Characteristics), and producibility.

After successful flight test demonstration of the prototype, the program will mature developmental hardware to nuclear system "diamond stamp" quality, ensure nuclear surety standards are met, and mature aircraft interfaces including Aircraft Monitor and Control functions.

The Air Force Research Laboratory is focused on high-impact, multi-domain science, technology, and prototyping solutions that drive innovation now while laying the groundwork for the Air and Space Force to win the future fight. The Air Force Research Laboratory effectively synchronizes the Department of Air Force science and

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604336F I Nuclear Delivery Systems Prototyping				
technology enterprise and workforce to align towards the most consequential DAF priorities and accelerate the delivery of game-changing science, technology, and prototypes.						
In order to manage, execute, and deliver capabilities, this program element may include necessary civilian pay expenses; expenses to support the operation and maintenance of facilities; as well as expenses related to travel, supplies, IT hardware, software and support, and administrative contractor services.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	39.079	56.926	0.000	56.926
Total Adjustments		0.000	39.079	56.926	0.000	56.926
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	39.079	56.926	0.000	56.926
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Air-Delivered Nuclear Delivery System				-	39.079	56.926
Description: Develop and demonstrate a prototype air-delivered nuclear delivery system in coordination with the Department of Energy National Nuclear Security Administration and its National Laboratories.						
FY 2025 Plans:						
- Initiate Modeling and Simulation analysis of several nuclear explosive package options to refine proposed design.						
- Initiate component design and procurement to build Prototype Weapon Assemblies in preparation of ground tests beginning in FY 2025.						
- Initiate aircraft integration required to begin flight testing in FY 2026.						
- Initiate sled test target construction.						
FY 2026 Plans:						
- Continue Modeling and Simulation analysis of nuclear explosive package design options.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604336F / <i>Nuclear Delivery Systems Prototyping</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Continue component design and procurement components to build Prototype Weapon Assemblies in preparation of future ground tests. - Continue ground tests of Prototype Weapon Assemblies to include mechanical, electrical, subscale, and sled testing. - Continue aircraft integration required for flight testing. - Initiate flight testing activities. - Complete subscale component and subsystem testing. - Complete sled test target construction. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 increased compared to FY 2025 by \$17.847 million due to greater emphasis on prototype design after completion of Modeling and Simulation of mission effectiveness of design space options; increased procurement and development of components; the initiation of subsystem and test unit assembly; and the initiation of ground tests of the Prototype Weapon Assemblies.				
Accomplishments/Planned Programs Subtotals		-	39.079	56.926
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy The Air Force Research Laboratory at Kirtland Air Force Base, New Mexico will be managing and executing the Air-Delivered Nuclear Delivery System program through a government-led team and in collaboration with the Department of Energy's National Nuclear Security Administration and its National Laboratories. Development of the prototype includes contractors outside the traditional National Nuclear Security Administration production agencies to produce developmental hardware and avoid impacting nuclear warhead Programs of Record.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604336F / Nuclear Delivery Systems P rototyping				Project (Number/Name) 643360 / Prototyping					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Air Force Components	Various	Various : TBD	-	-		6.174	Aug 2025	2.342	Dec 2025	-		2.342	-	-	-
Design and Build (SNL)	MIPR	NNSA/SNL : Kirtland AFB, NM	-	-		6.326	Jun 2025	15.695	Nov 2025	-		15.695	-	-	-
Design and Build (LANL)	MIPR	NNSA/LANL : Los Alamos, NM	-	-		6.326	Jun 2025	8.695	Nov 2025	-		8.695	-	-	-
Fuze Development	MIPR	NNSA/SNL : Livermore, CA	-	-		4.224	Jun 2025	5.856	Nov 2025	-		5.856	-	-	-
Subtotal			-	-		23.050		32.588		-		32.588	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Technology and Workforce Development	Various	Various : TBD	-	-		0.325	Aug 2025	0.586	May 2026	-		0.586	-	-	-
Systems Engineering	Various	Various : TBD	-	-		0.244	Jun 2025	0.586	Dec 2025	-		0.586	-	-	-
Geology Studies	Various	Various : TBD	-	-		0.325	Aug 2025	1.952	Dec 2025	-		1.952	-	-	-
Subtotal			-	-		0.894		3.124		-		3.124	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Flight Testing	Various	Various : TBD	-	-		4.224	Sep 2025	3.760	Mar 2026	-		3.760	-	-	-
Sled Testing	Various	Various : TBD	-	-		4.891	Jul 2025	2.323	Dec 2025	-		2.323	-	-	-
Test and Evaluation Support	C/CPFF	TBD : TBD	-	-		1.625	Aug 2025	9.760	Nov 2025	-		9.760	-	-	-
Subtotal			-	-		10.740		15.843		-		15.843	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604336F / Nuclear Delivery Systems P rototyping						Project (Number/Name) 643360 / Prototyping			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Civilian Labor	Various	AFRL : Kirtland AFB, NM	-	-		1.500	Jul 2025	1.500	Oct 2025	-		1.500	-	-	-
Program Management and Administration	Various	AFRL : Kirtland AFB, NM	-	-		1.888	Jul 2025	2.700	Dec 2025	-		2.700	-	-	-
Scheduling/Systems Engineering Support	Various	AFRL : Kirtland AFB, NM	-	-		1.007	Aug 2025	1.171	Nov 2025	-		1.171	-	-	-
Subtotal			-	-		4.395		5.371		-		5.371	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		39.079		56.926		-		56.926	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604336F / Nuclear Delivery Systems P rototyping	Project (Number/Name) 643360 / Prototyping	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Program Management																												
Mission Effectiveness Evaluation																												
Component Modification																												
Full Scale Targets - Design and Build																												
Case Design																												
Test Assessed Modification																												
Prototype																												
Subscale Test Assembly																												
Prototype Weapon Assembly																												
Ground Testing																												
Subscale Testing																												
Full Scale Testing																												
Flight Testing: F-15																												
Parametric Tests																												
Prototype Flight Test Series																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604336F / Nuclear Delivery Systems P rototyping	Project (Number/Name) 643360 / Prototyping	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Program Management				
Mission Effectiveness Evaluation	4	2025	2	2029
Component Modification				
Full Scale Targets - Design and Build	3	2025	3	2026
Case Design				
Test Assessed Modification	1	2026	4	2028
Prototype				
Subscale Test Assembly	3	2025	1	2026
Prototype Weapon Assembly	1	2026	4	2028
Ground Testing				
Subscale Testing	4	2025	1	2026
Full Scale Testing	2	2026	4	2028
Flight Testing: F-15				
Parametric Tests	1	2026	1	2026
Prototype Flight Test Series	4	2026	3	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604414F I <i>Cyber Resiliency of Weapon Systems-ACS</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	35.712	45.555	46.148	0.000	46.148	-	-	-	-	-	-
642812: <i>Acquisition/System Security Engineering</i>	0.000	15.728	17.823	40.166	0.000	40.166	-	-	-	-	-	-
642834: <i>Mitigations</i>	0.000	14.261	20.732	5.982	0.000	5.982	-	-	-	-	-	-
642836: <i>Mission Risk Analysis</i>	0.000	5.723	7.000	0.000	0.000	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program funds activities at the Cyber Resiliency Office for Weapon Systems (CROWS). The CROWS is the sole organization tasked to enhance and enable Department of the Air Force (DAF) Program Executive Office (PEOs) and Program Management Offices (PMOs) to understand, engineer, and integrate cyber resiliency into emerging and fielded weapon systems to mitigate critical cyber-based vulnerabilities and preserve mission effectiveness in contested environments.

The CROWS' mission directly aligns with the National Defense Strategy (NDS).The NDS specifically emphasizes integrated deterrence as vital to safeguarding U.S. national interests from aggression and strategic attacks by building a resilient, survivable Joint Force in the cyber domain, which requires the Department of Defense to prioritize investments in cyber defense, resilience, and the continued integration of cyber capabilities into the full spectrum of military operations.

This program addresses weapon system cyber resiliency through two primary activities. The first activity is to develop systems security engineering tools, techniques, and procedures, with associated training and education, to integrate cyber expertise into the acquisition workforce. Notably this includes embedding knowledgeable personnel - aka Cyber Focus Teams - within DAF PEOs and PMOs, and equipping them with expertise and resources to enhance the cyber posture of DAF weapon systems. This activity also includes funding capabilities to enable effective sharing of classified cyber intelligence and vulnerability information across multiple acquisition programs, identifying technologies, tactics, and policies for further development, prototyping, and operational exercises to posture DAF weapon systems to counter emerging threats. Furthermore, this activity includes organization and analysis of the DAF's cyber risk and mitigations landscape to inform senior leaders and investment strategies. The second activity enables the CROWS to centralize and consolidate DAF and Department of Defense acquisition cyber needs and conduct threat-informed weapon systems solution analysis, identify and prioritize vulnerabilities, and deliver courses of action to mature the material and non-material solutions for mitigated vulnerabilities.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604414F I Cyber Resiliency of Weapon Systems-ACS			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	37.121	59.539	62.696	0.000	62.696
Current President's Budget	35.712	45.555	46.148	0.000	46.148
Total Adjustments	-1.409	-13.984	-16.548	0.000	-16.548
• Congressional General Reductions	0.000	-13.984			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.087	0.000			
• Other Adjustments	-0.322	0.000	-16.548	0.000	-16.548
Change Summary Explanation					
FY 2024 reduction of \$1.409 million due to SBIR and appropriation-wide Federally Funded Research and Development Center reduction.					
FY 2025 reduction of \$13.984 million due to unjustified growth.					
FY 2026 reduction of \$1.700 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative" and a reduction of \$14.848 million reflective of a strategic realignment to optimize cyber capabilities and improve resource efficiency.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS				Project (Number/Name) 642812 / Acquisition/System Security Engineering			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
642812: Acquisition/System Security Engineering	0.000	15.728	17.823	40.166	0.000	40.166	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Acquisition/System Security Engineering (SSE) activity encompasses several continuous efforts to support the Department of the Air Force (DAF) and Department of Defense acquisition community. First, it produces and distributes standard system security engineering and acquisition security processes, policies, and contracting language to ensure cyber requirements are properly addressed in fielded and emerging weapon systems. Second, it bolsters intelligence collection and intelligence community engagement to provide consistent and current knowledge of cyber threats to enable the acquisition community to calculate weapon system risks. Third, it develops and hones personnel cyber resiliency training, manning strategies, and integrates Cyber Focus Teams into Program Executive Offices (PEOs) to bridge the lack of cyber acquisition expertise in PEOs. Fourth, it explores and evaluates the DAF's dynamic cyber landscape to uncover vulnerabilities and prioritize cyber techniques, products, and technologies for further development and prototyping to counter evolving threats. Fifth, it resources common secure environments to enable Program Offices to share sensitive cyber intelligence, threats, and vulnerabilities, and other critical program information. Sixth, it develops software to enable digital engineering transformation of risk identification and tracking for weapon systems. Seventh, it enables the Cyber Resiliency Office for Weapon Systems (CROWS) to research, publish, and deliver government-owned guidance, roadmaps, and references to enable weapon system program offices and industry partners to effectively implement and adapt DAF strategic cyber requirements (example: Zero Trust and Defense Cyber Operations). The centralized and consolidated nature of the CROWS saves the acquisition community millions annually by eliminating the need for each weapon system program and industry partner to fund individual cyber technical exploration efforts. Finally, it resources Defense Industrial Base data protection efforts and DAF program offices with program protection resources to include hardware assurance, software assurance, supply chain risk management, and other weapon system cybersecurity/resiliency activities, as required.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Acquisition/System Security Engineering	15.728	17.823	40.166
Description: Evaluates, transitions, and applies cyber resiliency activities into policy, processes, and products to enhance weapon system cybersecurity.			
FY 2025 Plans: - Continue intelligence community partnerships and expand dedicated agency intel resources to improve cyber threat knowledge of DAF weapon systems. - Continue to build and host educational learning paths and initiatives to grow weapon system cyber experts through functional knowledge (program management, engineering, logistics, etc.) and information technology cross training. - Continue to develop and expand functionality of acquisition digital engineering tools for weapon system cyber vulnerability assessments and program document artifact generation.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>		Project (Number/Name) 642812 / <i>Acquisition/System Security Engineering</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
• Continue cyber domain exploration modifications and initiate equipment purchases to enable identification and understanding of navigation, communication, and electronic warfare cyber vulnerabilities and mitigations. • Complete common security environment ownership transition and continue reach back security support to enable program offices to collaborate and share sensitive cyber program data. • Continue to develop and refine software for digital engineering transformation of weapon system risk tracking and identification. • Continue and expand contractor support for Trusted Systems and Networks (TSN) Center of Excellence (CoE) to perform hardware and software assurance in support of weapon system program protection plans. FY 2026 Plans: • Continue intelligence community partnerships and dedicated agency intel resources to improve cyber threat knowledge of Department of the Air Force (DAF) weapon systems. • Continue to build and host educational learning paths to grow weapon system cyber experts through functional knowledge (program managers, engineers, logisticians, etc.) and information technology cross training. • Expand development and functionality of acquisition digital materiel management (DMM) tools for weapon system cyber vulnerability assessments and program document artifact generation. • Increase investment in the cyber engineering benchtop facility and increase projects to identify and mitigate navigation, communication, and electronic warfare cyber vulnerabilities. • Continue and expand contractor support for TSN CoE to perform hardware and software assurance in support of weapon system program protection plans. • Continue managing and analyzing data from annual FY21 NDAA 1712 Strategic Cybersecurity Program (SCP) and FY24 NDAA 1502 cyber data call and to understand the DAF's cyber vulnerability and mitigation landscape and inform SECAF investment priorities. • Continue to build and refine weapon system acquisition implementation strategies, guidance, and roadmaps for major cyber policies (ex. Zero Trust and Defensive Cyber Operations). • Continue to discover, analyze, and coordinate information sharing of mission risk and risk discovery activities for DAF weapon systems. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increased compared to FY 2025 by \$22.343 million due to the realignment of project 642836, Mission Risk Analysis (\$7.000 million), project 642834, Mitigations (\$5.838 million) and an additional \$9.505 million to primarily increase 1) dedicated intelligence community resources to discover and share emerging cyber threats, 2) resources for a premier cyber benchtop/ engineering facility to identify navigation, communication, and electronic warfare cyber vulnerabilities and mitigations to weapon system programs of record, 3) resources for a digital material management tools environment to enhance weapon system cyber					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS	Project (Number/Name) 642812 / Acquisition/System Security Engineering		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
vulnerability assessments and program document artifact generation across the DAF, and 4) resources to demonstrate emerging cyber risks and malware identification/removal technology on next-generation weapon systems.				
Accomplishments/Planned Programs Subtotals		15.728	17.823	40.166
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy When possible, activities in this effort will leverage current competitively-awarded contracts. Additional necessary contracts funded in this program element will be awarded using either competitive or sole source procedures, whichever is most appropriate. The government agency responsible for managing the program is the Air Force Life Cycle Management Center, Cyber Resiliency Office for Weapon Systems, Wright-Patterson Air Force Base, Ohio and Hanscom Air Force Base, Massachusetts.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS				Project (Number/Name) 642812 / Acquisition/System Security Engineering					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Intel collection skills to identify cyber threats to weapon systems	Various	Various : Various	-	1.000	Dec 2023	1.000	Oct 2024	5.500	Oct 2025	-		5.500	-	-	-
Education and Training	Various	Various : Various	-	1.000	Jan 2024	1.000	Oct 2024	1.250	Oct 2025	-		1.250	-	-	-
Cyber Resiliency Technologies Development	Various	Various : Various	-	0.729	Nov 2023	2.000	Oct 2024	7.900	Oct 2025	-		7.900	-	-	-
Cyber Domain Exploration Facility	Various	Various : Dayton, OH	-	-		1.000	Dec 2024	4.500	Dec 2025	-		4.500	-	-	-
Software Development	Various	Various : Various	-	0.700	Feb 2024	1.000	Feb 2025	1.266	Feb 2026	-		1.266	-	-	-
Subtotal			-	3.429		6.000		20.416		-		20.416	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
System Security Engineering requirements, policy and guidance documents (DTIC)	Various	DTIC : Various	-	0.400	Jan 2024	0.500	Jan 2025	0.550	Oct 2025	-		0.550	-	-	-
MITRE	Various	MITRE : Bedford, MA	-	3.899	Nov 2023	3.823	Nov 2024	6.000	Oct 2025	-		6.000	-	-	-
CMU/SEI	Various	Carnegie Mellon Univ. : Pittsburgh, PA	-	0.800	Dec 2023	1.000	Dec 2024	1.200	Oct 2025	-		1.200	-	-	-
Trusted System Network (TSN) Center of Excellence (COE)	Various	ARS Inc. : San Antonio, TX	-	3.000	Dec 2023	3.500	Oct 2024	4.000	Oct 2025	-		4.000	-	-	-
Subtotal			-	8.099		8.823		11.750		-		11.750	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS						Project (Number/Name) 642812 / Acquisition/System Security Engineering			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
A&AS, Travel, Government Purchase Card	Various	Various : Various	-	4.200	Dec 2023	3.000	Oct 2024	8.000	Oct 2025	-		8.000	-	-	-
Subtotal			-	4.200		3.000		8.000		-		8.000	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	15.728		17.823		40.166		-		40.166	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS		Project (Number/Name) 642812 / Acquisition/System Security Engineering	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Acquisition/System Security Engineering																												
Transition common cyber security environments																												
Support common cyber security environments																												
Prototype and deliver enhanced system security engineering processes and products																												
Prototype and deliver cyber security design and contractual requirements																												
Deliver acquisition cyber intel analysis products and techniques																												
Develop and provide weapon system cyber training																												
Prototype advanced cyber resiliency technology																												
Develop and transition software for digital engineering transformation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS	Project (Number/Name) 642812 / Acquisition/System Security Engineering	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Acquisition/System Security Engineering				
Transition common cyber security environments	1	2024	4	2025
Support common cyber security environments	1	2025	4	2030
Prototype and deliver enhanced system security engineering processes and products	1	2024	4	2030
Prototype and deliver cyber security design and contractual requirements	1	2024	4	2030
Deliver acquisition cyber intel analysis products and techniques	1	2024	4	2030
Develop and provide weapon system cyber training	1	2024	4	2030
Prototype advanced cyber resiliency technology	1	2024	4	2030
Develop and transition software for digital engineering transformation	1	2024	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS				Project (Number/Name) 642834 / Mitigations			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
642834: Mitigations	0.000	14.261	20.732	5.982	0.000	5.982	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The Mitigations activity encompasses continuous efforts to support the Department of the Air Force (DAF) and Department of Defense acquisition community. It enables the Cyber Resiliency Office for Weapon Systems (CROWS) to be the DAF's focal point for enterprise cyber mitigations to critical cyber vulnerabilities for fielded weapon systems, subsystems, and support systems.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Cyber Mitigation Prototyping									14.261	20.732	5.982	
Description: Support and evaluate weapon systems' cyber risk assessments to identify, validate, and prioritize mitigations required for cyber vulnerabilities. Partner with system owners and acquisition Program Offices to develop and transition prototype mitigations.												
FY 2025 Plans:												
• Continue to research, develop, prototype, and demonstrate transition-ready mitigations to known cyber vulnerabilities on fielded weapon systems, subsystems, and support systems in realistic, high-fidelity environments aligned with program office plan of action and milestones (POA&Ms) and DAF cyber vulnerability/mitigation data calls.												
• Continue to build and refine weapon system acquisition implementation strategies, guidance, and roadmaps for major cyber policies (ex. Zero Trust).												
FY 2026 Plans:												
• Continue to research, develop, prototype, and demonstrate transition-ready mitigations on fielded weapon systems, subsystems, and support systems in realistic, high-fidelity environments to known cyber vulnerabilities aligned with program office plan of action and milestones (POA&Ms) and DAF cyber vulnerability/mitigation data calls.												
FY 2025 to FY 2026 Increase/Decrease Statement:												
FY 2026 decreased compared to FY 2025 by \$14.750 million due to realigning \$5.838 million to cover work activity under project 642812, Aquisition / Systems Security Engineering and remaining decrease totaling \$8.912 million reflective of a strategic realignment to optimize cyber capabilities and improve resource efficiency.												
Accomplishments/Planned Programs Subtotals									14.261	20.732	5.982	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642834 / <i>Mitigations</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy When possible, activities in this effort will leverage current competitively-awarded contracts. Additional necessary contracts funded in this program element will be awarded using either competitive or sole source procedures. The government agency responsible for managing the program is the Air Force Life Cycle Management Center, Cyber Resiliency Office for Weapon Systems, Wright-Patterson Air Force Base, Ohio and Hanscom Air Force Base, Massachusetts.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 4

R-1 Program Element (Number/Name)

PE 0604414F / Cyber Resiliency of Weapon Systems-ACS

Project (Number/Name)

642834 / Mitigations

Product Development (\$ in Millions)

				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Material Solutions for Major Weapon Systems	Various	Various : Various	-	4.271	Jan 2024	4.630	Jan 2025	1.000	Jan 2026	-		1.000	-	-	-
Material Solutions for Subsystems	Various	Various : Various	-	2.000	Dec 2023	3.509	Dec 2024	0.500	Jan 2026	-		0.500	-	-	-
Non-Material Solutions	Various	Various : Various	-	1.400	Dec 2023	2.826	Dec 2024	0.200	Jan 2026	-		0.200	-	-	-
Cyber Domain Exploration Facility	Various	Various : Dayton, OH	-	-		2.500	Dec 2024	1.082		-		1.082	-	-	-
Subtotal			-	7.671		13.465		2.782		-		2.782	-	-	N/A

Support (\$ in Millions)

				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MITRE	Various	MITRE : Bedford, MA	-	3.000	Jan 2024	3.677	Oct 2024	1.500	Oct 2025	-		1.500	-	-	-
Defense Technical Information Center (DTIC)	Various	DTIC : Various	-	0.240	Jan 2024	0.240	Oct 2024	0.200	Oct 2025	-		0.200	-	-	-
Subtotal			-	3.240		3.917		1.700		-		1.700	-	-	N/A

Management Services (\$ in Millions)

				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
A&AS, Travel, Government Purchase Card	Various	Various : Various	-	3.350	Dec 2023	3.350	Oct 2024	1.500	Oct 2025	-		1.500	-	-	-
Subtotal			-	3.350		3.350		1.500		-		1.500	-	-	N/A

			Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	14.261	20.732	5.982	-	5.982	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force							Date: June 2025			
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>		Project (Number/Name) 642834 / <i>Mitigations</i>				
	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force											Date: June 2025				
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>						Project (Number/Name) 642834 / <i>Mitigations</i>			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Mitigations																												
Prototype cyber mitigations on known cyber vulnerabilities																												
Weapon System Strategies for Department of the Air Force cyber requirements																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025	
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>		Project (Number/Name) 642834 / <i>Mitigations</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Mitigations</i>				
Prototype cyber mitigations on known cyber vulnerabilities	1	2024	4	2030
Weapon System Strategies for Department of the Air Force cyber requirements	1	2024	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS				Project (Number/Name) 642836 / Mission Risk Analysis			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
642836: Mission Risk Analysis	0.000	5.723	7.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The Mission Risk Analysis project encompasses one continuous effort to support the Department of the Air Force (DAF) and Department of Defense acquisition community. It enables the Cyber Resiliency Office for Weapon Systems (CROWS) to be the sole-organization to collect and analyze weapon system data from multiple sources (ex. Program Executive Office portfolios and test and evaluation efforts) to understand the DAF's cyber vulnerability landscape and mitigation initiatives to inform senior leader resource investment strategies. Additionally, this effort informs efforts in the other CROWS projects to prioritize research and investments to solve enterprise cyber vulnerability and mitigation needs.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Cyber Mission Risk Analysis									5.723	7.000	0.000	
Description: Discovers, analyzes, and coordinates information sharing of mission risk and risk discovery activities for DAF weapon systems.												
FY 2025 Plans:												
• Continue managing and analyzing data from annual FY21 NDAA 1712 Strategic Cybersecurity Program (SCP) and FY24 NDAA 1502 cyber data call and to understand the DAF's cyber vulnerability and mitigation landscape and inform SECAF investment priorities.												
FY 2026 Plans:												
• Transitioning work under program 642812 and continue managing and analyzing data from annual FY21 NDAA 1712 Strategic Cybersecurity Program (SCP) and FY24 NDAA 1502 cyber data call and to understand the DAF's cyber vulnerability and mitigation landscape and inform SECAF investment priorities.												
FY 2025 to FY 2026 Increase/Decrease Statement:												
FY 2026 decreased compared to FY 2025 by \$7.000 million due to transitioning work to project 642812 which better informs program office weapon system acquisition decisions with data-driven cyber mitigation needs.												
Accomplishments/Planned Programs Subtotals									5.723	7.000	0.000	
C. Other Program Funding Summary (\$ in Millions)												
N/A												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / <i>Cyber Resiliency of Weapon Systems-ACS</i>	Project (Number/Name) 642836 / <i>Mission Risk Analysis</i>
C. Other Program Funding Summary (\$ in Millions)		
Remarks		
D. Acquisition Strategy		
When possible, activities in this effort will leverage current competitively-awarded contracts. Additional necessary contracts funded in this program element will be awarded using either competitive or sole source procedures, whichever is most appropriate. The government agency responsible for managing the program is the Air Force Life Cycle Management Center, Cyber Resiliency Office for Weapon Systems, Wright-Patterson Air Force Base, Ohio and Hanscom Air Force Base, Massachusetts.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS						Project (Number/Name) 642836 / Mission Risk Analysis			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Data Capture Repository and Analytics Team	Various	Various : Various	-	4.823	Jan 2024	6.100	Jan 2025	-		-		-	-	-	-
Subtotal			-	4.823		6.100		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
A&AS, Travel, Government Purchase Card	Various	Various : Various	-	0.900	Dec 2023	0.900	Oct 2024	-		-		-	-	-	-
Subtotal			-	0.900		0.900		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	5.723		7.000		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS								Project (Number/Name) 642836 / Mission Risk Analysis			

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS	Project (Number/Name) 642836 / Mission Risk Analysis	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Mission Risk Analysis				
Develop, institutionalize and utilize a Data Capture Repository and Analytics Team (DCRA)	1	2024	4	2025
Execute risk analysis and discovery on weapons systems and across mission areas. Leverage and augment existing and emerging assessment environments and tools.	1	2024	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0604609F <i>I Requirements Analysis & Concept Maturation</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	12.622	22.754	0.000	22.754	-	-	-	-	-	-
640011: <i>Architecture & Integration Core Ops and Gap Assessment</i>	0.000	0.000	9.780	9.873	0.000	9.873	-	-	-	-	-	-
640012: <i>Maturation and Modernization</i>	0.000	0.000	2.842	2.869	0.000	2.869	-	-	-	-	-	-
646090: <i>Hard and Deeply Buried Targets (HDBT)</i>	0.000	0.000	0.000	10.012	0.000	10.012	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Capability development provides the analytic, technical, and programmatic rigor necessary to address capability gaps and opportunities to refine and mature future programs of record, prioritizing and accelerating transition of capabilities in collaboration with operational stakeholders. The Capability Development Enterprise is focused on maturing and transitioning high-impact warfighting capabilities aligned to Air Force Future Force Design through robust capability development.

The Requirements Analysis and Concept Maturation (RACM) program element performs concept refinement and acquisition activities for the Capability Development Enterprise (CDE) through Planning for Development. RACM achieves this through focus on the late-stage capability development, technology maturation and risk reduction, industry planning analysis, pre-program of record development, open system designs, and Analysis of Alternatives (AoA) support. This will include the development of contracting structures that prepare for a competitive industrial base environment. These activities provide the technical basis for acquisition planning, technology transition, and Program of Record (PoR) establishment or integration of a new capability into an existing PoR. RACM provides robust, mission- and threat-informed characterization of systems and capabilities at multiple security levels, working with various appropriate Services, Agencies, and Test organizations to fully define the military utility of, and enhancements to, the USAF Force Design. RACM provides timely, data-driven decision support to senior leaders, fostering effective, affordable, and supportable systems on a path to successful programs of record.

RACM supports capability and requirements analysis in support of the CDE, such as Capability Based Assessments (CBA), capability gap analysis/decomposition, Integrated Development Campaigns (IDC), and other activities as needed. Stakeholder coordination as well as acquisition enterprise alignment and advocacy occur in these foundational activities, which are critical for technology advancement and transition.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver RACM capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605829F, 0605831F, 0605833F, and 0605898F.

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604609F I Requirements Analysis & Concept Maturation			
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.					
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	0.000	22.667	22.832	0.000	22.832
Current President's Budget	0.000	12.622	22.754	0.000	22.754
Total Adjustments	0.000	-10.045	-0.078	0.000	-0.078
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-10.045			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.078	0.000	-0.078
Change Summary Explanation					
FY 2025 budget request was reduced by \$10.045M for "unjustified" request.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation				Project (Number/Name) 640011 / Architecture & Integration Core Ops and Gap Assessment			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640011: Architecture & Integration Core Ops and Gap Assessment	0.000	0.000	9.780	9.873	0.000	9.873	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This BPAC focuses on Planning for Development activities including concept selection, risk reduction, and integration in preparation for transition to a Program of Record (PoR) prior to the establishment of a program management office. Capability Based Assessments (CBA), Analysis of Alternatives (AoA) and similar studies support these activities by providing an evaluation of stakeholder-focused warfighting capabilities via candidate concept technical descriptions. These technical descriptions include open systems and industrial base inputs and analysis to support and enable acquisition, test, and training for current and emerging capability concepts. This includes pre-Milestone A risk reduction, integration, and acquisition planning activities, such as initial product support planning, developing capability concepts, high-confidence initial designs, performance estimation, risk identification, and additional concept refinement in coordination with Department of the Air Force (DAF) priorities. These funds may be used for program management support costs, including, but not limited to, hardware, software, travel, contractor support services, civilian pay, supplies, facilities, and infrastructure.

This effort falls under Budget Activity 4, ACD&P, because these efforts are necessary to evaluate integrated technologies, representative modes, or prototype systems in a high-fidelity and realistic operating environment.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver RACM capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605829F, 0605831F, 0605833F, and 0605898F.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Capability Development Core Ops	0.000	5.780	5.100
Description: Encompasses capability development activities supporting Analysis of Alternatives and other pre-Milestone efforts. Multi-level security analysis, maturation and pre-program of record development, and digital infrastructure integration anchored on capability-based assessments or other demand signals from the Integrated Capabilities Command (ICC), Senior Acquisition Executive (SAE), or the Capability Development Executive Officer (CDEO). This includes project support and operational support costs.			
FY 2025 Plans: - Initiate capability development activities in support of pre-Milestone A acquisition activities. Procure and deploy networking equipment, including endpoints, to facilities assigned to the Integrated Development Office (IDO) and its outlying locations to			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604609F / <i>Requirements Analysis & Concept Maturation</i>		Project (Number/Name) 640011 / <i>Architecture & Integration Core Ops and Gap Assessment</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
facilitate multi-level security and multi-domain analysis. Procure, install, and configure modern digital tools in support of business and engineering efforts supporting capability development. These networks, systems, and tools will integrate the IDO into existing integrated digital environments, such as MORPHEUS, the Digital Lab Environment, and other classified engineering, modeling, business, and analysis environments to enable Science & Technology (S&T) demand signal development, technology transition, and Planning for Development in support of the CDE. FY 2026 Plans: - Execute the Next Generation Air Lift (NGAL) Analysis of Alternatives. Delivers acquisition data and analysis to support data-driven acquisition decisions. Informs Planning for Development and prepares for MAJCOM interactions and PPBE activities required for PoR establishment. Support additional ICC directed studies based on USAF Force Design Mission Thread priorities. FY 2025 to FY 2026 Increase/Decrease Statement: N/A					
Title: Capability Development System Attribute Definition and Acquisition Planning Description: Provides Planning for Development activities aligned with emerging technology and the force design. This activity funds engineering and integration efforts to refine proposed systems. These activities inform development acquisition planning, to include contracting strategies and other products that substantiate an executable Program of Record (PoR). This core capability provides increased acquisition maturation and initiation of high-confidence PoRs in a multi-level security structure, supporting single- and multi-domain capabilities as well as system-of-systems solutions. This includes project support and operational support costs. FY 2025 Plans: - Initiate Planning for Development of Force Design and CDEO prioritized capabilities, such as NGAL, to build the evidence supporting Analysis of Alternatives (AoA) sufficiency at all security levels and relevant domains. These products support the CDE with system attribute trades, candidate concept descriptions, open system solutions, and other analyses leveraging modern digital engineering and business tools. These activities may involve targeted Science & Technology (S&T), risk reduction, and other demonstrations of technical debt resolution. FY 2026 Plans: - Continue Planning for Development for Force Design and CDEO prioritized capabilities. Continue to mature Dragon Cart/ Palletized Effects pre-PoR activities, reducing risk, proving out integration, and executing DOTmLPF-P activities with operational stakeholders. Delivers digital engineering artifacts, models, and analysis to document the system and capabilities. Executes additional ICC and CDEO directed capabilities. FY 2025 to FY 2026 Increase/Decrease Statement:			0.000	4.000	4.773

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Concept Maturation	Project (Number/Name) 640011 / Architecture & Integration Core Ops and Gap Assessment		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
N/A				
Accomplishments/Planned Programs Subtotals		0.000	9.780	9.873
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
Acquisition strategies will be customized for each Concept Development and Development Planning project, ensuring alignment with specific Air Force stakeholder needs.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604609F / <i>Requirements Analysis & Concept Maturation</i>						Project (Number/Name) 640011 / <i>Architecture & Integration Core Ops and Gap Assessment</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Capability Development Attribute Definition and Acquisition Planning	TBD	TBD : TBD	-	-		3.056	Jul 2025	3.456	Mar 2026	-		3.456	-	-	-
Subtotal			-	-		3.056		3.456		-		3.456	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	Not specified. : TBD	-	-		2.724	Jul 2025	2.917	Mar 2026	-		2.917	-	-	-
Subtotal			-	-		2.724		2.917		-		2.917	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Capability Development Core Ops	TBD	Not specified. : TBD	-	-		4.000	Jul 2025	3.500	Oct 2025	-		3.500	-	-	-
Subtotal			-	-		4.000		3.500		-		3.500	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		9.780		9.873		-		9.873	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 4						PE 0604609F / Requirements Analysis & Concept Maturation						640011 / Architecture & Integration Core Ops and Gap Assessment			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Capability Development Core Ops																												
Analysis of Alternatives																												
Capability Development Attribute Definition and Acquisition Planning																												
Capability Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation	Project (Number/Name) 640011 / Architecture & Integration Core Ops and Gap Assessment

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Capability Development Core Ops				
Analysis of Alternatives	3	2025	4	2030
Capability Development Attribute Definition and Acquisition Planning				
Capability Development	3	2025	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation				Project (Number/Name) 640012 / Maturation and Modernization			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640012: Maturation and Modernization	0.000	0.000	2.842	2.869	0.000	2.869	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This BPAC matures candidate concepts derived from the Force Design and CDEO priorities, accelerates acquisition timelines, reduces technology risks, demonstrates integration and delivers potential solutions to address warfighting needs. Utilizes modern digital tools and methodologies to render quality data-driven decision space. These activities inform or refine concepts that are not mature enough for acquisition decisions to determine operational viability and/or progress to pre-Program of Record type activities. The BPAC spans various security levels and encompass the later phases of capability development. This may include development of potential contracting structures that prepares a competitive industrial base environment. These funds may be used for program management support costs including but not limited to, hardware, software, travel, contractor support services, civilian pay, supplies, facilities, infrastructure.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver RACM capabilities. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, 0605898F.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Maturation and Modernization	0.000	2.842	2.869
Description: Provides the CDE with Concept Refinement and risk reduction efforts aligned to the Force Design and CDEO priorities. These activities are new initiatives that are conceived as potential solutions to identified gaps. This is where functional allocation meets physical allocation in concept refinement. As the concept designs begin to close, the planning to realize mature designs solidifies, allowing for a Planning for Development determination. This data informs potential acquisition pathways and decisions with the fidelity required. Open systems, government reference architectures, and family-of-systems are key drivers to development. Multiple technology transitions may be needed for a Concept Refinement candidate or realized system.			
FY 2025 Plans: - Initiate Concept Refinement and Planning for Development activities aligned to the CDE demand signal and prioritization, utilizing modern digital engineering tools and methodologies to integrate candidate concepts previously demonstrated through rapid prototyping or experimentation. System-level design that may include several technology transitions to realize the candidate concept.			
FY 2026 Plans: - Continue Concept Refinement and Planning for Development activities reducing system risk, demonstrating integration and leveraging existing open architectures fostering family-of-systems development. Delivers acquisition data and analysis derived			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Concept Maturation	Project (Number/Name) 640012 / Maturation and Modernization		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
from previous rapid prototyping, experimentation and test to inform AoAs or pre-Program of Record activities in Planning for Development. Potential candidate concepts based on CDEO priorities to include network sensing capabilities. Continue to perform these projects until an AoA is funded, a PoR or modernization activity needs to be transitioned to a Program Executive Office for execution, or until the concept is deemed not viable and closed.				
FY 2025 to FY 2026 Increase/Decrease Statement: N/A				
Accomplishments/Planned Programs Subtotals		0.000	2.842	2.869
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy Acquisition strategies will be customized for each Maturation and Modernization project, ensuring alignment with specific Air Force stakeholder needs.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Concept Maturation						Project (Number/Name) 640012 / Maturation and Modernization			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Maturation & Modernization	Various	Not specified. : TBD	-	-		1.940	Apr 2025	1.956	Jan 2026	-		1.956	-	-	-
Subtotal			-	-		1.940		1.956		-		1.956	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	Not specified. : TBD	-	-		0.902	Apr 2025	0.913	Jan 2026	-		0.913	-	-	-
Subtotal			-	-		0.902		0.913		-		0.913	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		2.842		2.869		-		2.869	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025																			
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation										Project (Number/Name) 640012 / Maturation and Modernization									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Maturation and Modernization																												
Technology Maturation and Risk Reduction																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation	Project (Number/Name) 640012 / Maturation and Modernization	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Maturation and Modernization				
Technology Maturation and Risk Reduction	3	2025	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Concept Maturation				Project (Number/Name) 646090 / Hard and Deeply Buried Targets (HDBT)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
646090: Hard and Deeply Buried Targets (HDBT)	0.000	0.000	0.000	10.012	0.000	10.012	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This BPAC conducts an OSD-directed, Air Force-led effort addressing the Hard and Deeply Buried Targets (HDBT) problem set and recommendations in the National HDBT Strategy. A broad-scope weaponizing analysis and concept refinement effort to develop a threat-informed, technically rigorous, and disciplined understanding of how current and emerging strike capabilities can be combined effectively to engage sophisticated underground military complexes, as reported by the Intelligence Community. Informs DoD-wide intelligence, operational, and acquisition decision space to enable a full spectrum counter-HDBT kill chain, expanding the range of options to hold the most difficult HDBTs at risk. The data and analysis generated may be used in a future Analysis of Alternatives (AoA). Evaluation of the current inventory baseline as well as near-term acquisitions will also drive focused S&T demand signals for desired attributes that will be captured and distributed via appropriate channels. These funds may cover, but are not limited to, hardware, software, travel, personnel and other costs needed to accomplish the mission.

This also includes program support and operational support costs necessary to further the program up until the standup of a PoR.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver HDBT capabilities. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Hard and Deeply Buried Targets (HDBT)	0.000	0.000	10.012
Description: This effort executes a broad-scope weaponizing analysis effort, "Ensemble Analysis", of layered and sequenced weapons effects to inform, shape, and guide counter-HDBT employment and acquisition decisions, as well as any follow-on analysis efforts. The HDBT Ensemble Analysis effort includes program support, operational support costs, inputs to scenario development, assessment of existing systems versus new builds, survivability assessment, and coordination assessing technical maturation requirements. An Analysis of Alternatives (AoA) may follow the Ensemble Analysis following OSD direction.			
FY 2025 Plans: - Conduct initial baseline Ensemble Analysis of layered weapons effects against exemplar HDBT facilities. Using existing intelligence characterizations of target complexes, the Ensemble Analysis will create laydowns, scenarios, and vignettes to evaluate efficacy between a factorial combination of weapons; time-phased to inform both current inventory capabilities/limitations and the value of near-term acquisitions across multiple domains. Delivers the environment, baseline attributes, and models to successfully execute campaign-level analysis in FY 2026.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation	Project (Number/Name) 646090 / Hard and Deeply Buried Targets (HDBT)		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
- For FY 2025, \$4.000 million will be executed from BPAC 640011 to support these initial activities. A new BPAC (646090) has been established, and project will be executed in the new BPAC starting in FY 2026. FY 2026 Plans: - Execute and complete fully informed, mission- and campaign-level Ensemble Analysis on surrogate Hard and Deeply Buried Targets (HDBTs). Delivers the data, analysis, and methodology for evaluating ensembles of existing and future weapons utilizing existing intelligence products. This builds on the initial effectiveness baseline with layered effects sequencing within operational campaign constraints, along with survivability assessments and cost analyses. Captures needed technical attributes to expand the range of options to disrupt, degrade, and/or defeat HDBT operations. These products may inform follow-on AoAs if directed by OSD and will build the analytical foundation for the future Joint HDBT Defeat Organization. The HDBT effort includes program support and operational support costs. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increased compared to FY 2025 by \$10.012 million due to new BPAC created specifically for HDBTs. In FY 2025 \$4.000 million is being executed in 640011 BPAC.					
Accomplishments/Planned Programs Subtotals			0.000	0.000	10.012
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
D. Acquisition Strategy					
An Ensemble Analysis was implemented in FY25 to further identify and understand counter-HDBT capability gaps and inform the Air Force and DoD acquisition strategy. The approach for the Ensemble Analysis for HDBT defeat: 1) Synthesize current state-of-the-art, including past research and validated capability requirements, 2) Conduct a holistic study to examine and recommend solutions for all dimensions of HDBT defeat considering nuclear, conventional, and non-kinetic effects, to include layering of two or more of those effects, and 3) inform and drive follow-on Analyses of Alternatives to provide concrete trade space characterization and acquisition strategy recommendations for each of the three effect categories.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Concept Maturation						Project (Number/Name) 646090 / Hard and Deeply Buried Targets (HDBT)			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Ensemble Analysis and CD/DP	TBD	TBD : TBD	-	-		0.000	Jan 2025	7.090	Jan 2026	-		7.090	-	-	-
Subtotal			-	-		0.000		7.090		-		7.090	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	Not specified. : TBD	-	-		0.000	Jan 2025	2.922	Jan 2026	-		2.922	-	-	-
Subtotal			-	-		0.000		2.922		-		2.922	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		0.000		10.012		-		10.012	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025																			
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation										Project (Number/Name) 646090 / Hard and Deeply Buried Targets (HDBT)									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
HDBT																												
Ensemble Analysis																												
Concept Development/Development Planning																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604609F / Requirements Analysis & Co ncept Maturation	Project (Number/Name) 646090 / Hard and Deeply Buried Targets (HDBT)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>HDBT</i>				
Ensemble Analysis	2	2025	4	2025
Concept Development/Development Planning	1	2026	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0604668F I Joint Transportation Management System (JTMS)							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	26.036	74.103	129.626	0.000	129.626	-	-	-	-	-	-
646682: JTMS DEVELOPMENT	0.000	26.036	74.103	129.626	0.000	129.626	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This initiative fields a commercial-off-the-shelf (COTS) Enterprise Resource Planning (ERP) solution that will fuse the transportation and financial domains throughout the Joint Deployment and Distribution Enterprise (JDDE) to achieve auditability, transparency, and optimized resource allocation. The program will deliver integrated, streamlined transportation and financial data and processes, supporting the Joint Deployment and Distribution Enterprise (JDDE). Services and DoD agencies will have a system to automate the linkage between transportation action tasks and transportation business related tasks across the full spectrum of financial activity, from obligations through general ledger accounting. It will also close all major gaps that prevent auditability within the transportation spend across DoD and achieve significant gains in two of the focus areas of the Department of Defense's Data Strategy: Senior Leader Decision Support and Business Analytics. Through the JTMS's ability to seamlessly integrate financial data and information with transportation operations in the joint domain, it will give JDDE users the ability to see to the transactional level in a resilient transportation network while reducing duplicate capabilities.

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

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system like capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 the program expended \$6.7 million for civilian pay in this program element, and in FY25 the program forecasts \$8.92 million for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025			
Appropriation/Budget Activity		R-1 Program Element (Number/Name)					
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604668F I Joint Transportation Management System (JTMS)					
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget		37.026	174.723	156.381	0.000	156.381	
Current President's Budget		26.036	74.103	129.626	0.000	129.626	
Total Adjustments		-10.990	-100.620	-26.755	0.000	-26.755	
• Congressional General Reductions		0.000	0.000				
• Congressional Directed Reductions		0.000	-65.329				
• Congressional Rescissions		0.000	0.000				
• Congressional Adds		0.000	0.000				
• Congressional Directed Transfers		0.000	0.000				
• Reprogrammings		0.000	0.000				
• SBIR/STTR Transfer		-0.990	0.000				
• Other Adjustments		-10.000	-35.291	-26.755	0.000	-26.755	
Change Summary Explanation							
The FY 2024 Other Adjustment of -\$10 million was return to Air Force (Early to Need).							
The FY 2025 Congressional Reduction of -\$65.329 million was the result of SAC-D Mark (Early to Need).							
The FY 2025 Other Adjustment of -\$35.291 million was a transfer from the Joint Transportation Management System to Air Force Classified Programs as the result of projected civilian pay and program under-execution.							
The FY 2026 Other Adjustment of -\$26.755 million was result of Defense Acquisition Board decision and excess was returned to Air Force.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2024	FY 2025	FY 2026
Title: Joint Transportation Management System Acquisition/Development					26.036	74.103	129.626
Description: Support JTMS Implementation Contract award through pre-acquisition and acquisition activities. This includes drafting management plans, executing programmatic activities (Project Management, Configuration Management, Risk Management, Release Management, Testing, and Training), providing solution analysis and recommendations to the Functional Sponsor based on alternatives analysis, procuring and establishing the hosting environment, and initiating Risk Management Framework (RMF) accreditation activities.							
FY 2025 Plans:							
Continuing activities and capturing the enterprise-level "as-is" distribution processes to increase overall Joint Deployment and Distribution Enterprise (JDDE) understanding and to assist JTMS impact assessment and business process reengineering. Also, continue to include studies and analysis to support both current program planning and execution and future program planning.							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604668F <i>I Joint Transportation Management System (JTMS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
1) Document as-is architectures across Continental United States (CONUS) Freight, Strategic Sealift, Strategic Airlift, and Outside the Continental United States (OCONUS) freight lines of business. 2) Business Process Reengineering across Continental United States (CONUS) Freight, Strategic Sealift, Strategic Airlift, and OCONUS freight lines of business. 3) Organizational Change Management and communications. 4) Auditability Systems Requirements Definition. 5) JTMS Implementation Contract Integrator Phase-In activities. 6) Begin stand up of secure cloud hosting environment. 7) Begin design/implementation-level business process reengineering for CONUS freight line of business. 8) Design/configure material solution to support lines of operation under CONUS freight. 9) Procure Enterprise Resource Planning (ERP) software licensing. FY 2026 Plans: 1) Continue Organizational Change Management and communications. 2) Continue Analysis-Level Business Process Reengineering across Strategic Sealift, Strategic Airlift, and OCONUS freight lines of business. 3) Consolidate JTMS Support Activities (Program Management, Engineering, Functional Support (finance and logistics), and Auditability). 4) Continue standup and securing of the JTMS materiel solution cloud hosting environment and components hosted within. 5) Continue Design-Level Business Process Reengineering and Materiel Solution Blueprinting across CONUS freight line of business. 6) Configuration of materiel solution to support lines of operation under CONUS freight. 7) Begin limited deployment of integrated transportation and financial management capabilities. 8) Developmental and Operational Testing activities. 9) Develop training approach, mechanisms, and environments. FY 2025 to FY 2026 Increase/Decrease Statement: The increase from FY 2025 to FY 2026 is due to increased execution of JTMS Implementation Contract in FY 2026 with an initial award date scheduled in the 3rd quarter of FY 2025.				
Accomplishments/Planned Programs Subtotals		26.036	74.103	129.626
D. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604668F I Joint Transportation Management System (JTMS)	
E. Acquisition Strategy The program's plan is to implement JTMS across four lines of business - Continental United States Freight (CONUS Freight), Strategic Sealift, Strategic Airlift, and Outside the Continental United States Freight (OCONUS Freight) utilizing a methodical approach while leveraging supporting contracts for foundational activities like requirements analysis, "as-is" process mapping, business process reengineering, and organizational change management. The JTMS Implementation Contract will be a single award indefinite delivery indefinite quantity (IDIQ) with a ten-year ordering period (FY25 - FY35) using a modular contracting method of smaller, more manageable task orders.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604668F / Joint Transportation Management System (JTMS)					Project (Number/Name) 646682 / JTMS DEVELOPMENT				
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
JTMS Implementation Contract	C/TBD	TBD : Scott AFB, IL	-	0.000	Oct 2024	43.671	Jun 2025	96.502	Oct 2025	-		96.502	-	-	0.000
Subtotal			-	0.000		43.671		96.502		-		96.502	-	-	N/A
Remarks Test															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Acquisition Support	C/Various	Not specified. : Scott AFB, IL	-	-		2.791	Jun 2025	7.610	Oct 2025	-		7.610	-	-	-
Pre-acquisition Support	C/Various	Not specified. : Scott AFB, IL	-	10.858	Oct 2023	9.681	Oct 2024	0.000		-		0.000	-	-	0.000
Subtotal			-	10.858		12.472		7.610		-		7.610	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test Support	MIPR	Not specified. : TBD	-	-		0.229	Nov 2024	0.731	Oct 2025	-		0.731	-	-	-
Subtotal			-	-		0.229		0.731		-		0.731	-	-	N/A
Remarks Note: The program executes civilian pay (68 FTEs) out of the same program PEC (PE0604668F).															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604668F / Joint Transportation Management System (JTMS)						Project (Number/Name) 646682 / JTMS DEVELOPMENT			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Organizational Change Management Contract	C/Various	TBD : Scott AFB, IL	-	-		1.572	Nov 2024	4.120	Oct 2025	-		4.120	-	-	-
Joint Program Office Support	C/Various	TBD : Scott AFB, IL	-	8.478	Oct 2023	7.237	Oct 2024	8.951	Oct 2025	-		8.951	-	-	0.000
Civilian Pay	TBD	Not specified. : Scott AFB, IL	-	6.700	Oct 2023	8.922	Oct 2024	11.712	Oct 2025	-		11.712	-	-	-
Subtotal			-	15.178		17.731		24.783		-		24.783	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	26.036		74.103		129.626		-		129.626	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 4					PE 0604668F / Joint Transportation Management System (JTMS)					646682 / JTMS DEVELOPMENT									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Pre-Acquisition																												
Pre-Acquisition Activities																												
Program Acquisition																												
JTMS Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604668F / Joint Transportation Management System (JTMS)	Project (Number/Name) 646682 / JTMS DEVELOPMENT

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Pre-Acquisition				
Pre-Acquisition Activities	1	2024	2	2025
Program Acquisition				
JTMS Development	3	2025	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0604776F I Deployment & Distribution Enterprise R&D							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	23.733	4.840	4.996	0.000	4.996	-	-	-	-	-	-
640216: Deployment and Distribution Innovation	0.000	23.733	4.840	4.996	0.000	4.996	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping), in order to accurately reflect testing and prototype development in a simulated environment or lab.

A. Mission Description and Budget Item Justification

In partnership with the Services, Combatant Commands, OSD, select Defense Agencies, industry and academia, this program collaboratively pursues the development, integration, field demonstration and assessment of contested logistics Joint Deployment and Distribution Enterprise (JDDE) and Joint Petroleum Enterprise (JPE) capabilities. Contested logistics challenges include innovative projection and sustainment capabilities, seaport and airfield improvements, inventory/cargo management, materiel handling, cargo/container security, secure collaboration with commercial/interagency/coalition partners, and distributed global mobility C4. Intent is to improve the efficiency and effectiveness of logistics operations in support of the joint warfighter.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	31.833	4.840	5.012	0.000	5.012
Current President's Budget	23.733	4.840	4.996	0.000	4.996
Total Adjustments	-8.100	0.000	-0.016	0.000	-0.016
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-8.100	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.016	0.000	-0.016

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0604776F I Deployment & Distribution Enterprise R&D		
Change Summary Explanation In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) majority of the initiatives were reprogrammed to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping), in order to accurately reflect testing and prototype development in a simulated environment or lab.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Transportation Innovation		0.107	0.000	0.215
Description: Annual investment in emerging technologies to enhance the ability to globally project and sustain the joint warfighter/ address Joint Deployment and Distribution Enterprise (JDDE) and Joint Petroleum Enterprise (JPE) challenges. Includes contribution to Small Business Innovative Research (SBIR) program.				
FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment.				
FY 2026 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. These realignments shift funds to FY2026 for this effort.				
FY 2025 to FY 2026 Increase/Decrease Statement: Increase of \$0.215M due to fund realignment between Projects 630004 and 640216.				
Title: Distributed Littoral Ops Fuel Transfer		0.300	0.000	0.050
Description: Develop ability to autonomously/discretely pull fuel lines ashore in Joint Logistics Over-the-Shore (JLOTS) events in a contested logistics scenario. Technical partner is Naval Surface Warfare Center Carderock.				
FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment.				
FY 2026 Plans:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Project funding concluded in FY2026. Transition plan is to United States Navy Joint Petroleum Over-The-Shore (JPOTS). FY 2025 to FY 2026 Increase/Decrease Statement: Project shifted most funding from FY 2025 to FY 2026 due to slippage in schedule. Most FY 2026 work is BA 03 with a \$0.050M increase in BA 04 to commence demonstration in an operational environment.				
Title: Data Lakes Description: Initiative seeks to improve data quality, detect anomalies, and enhance decision support. FY 2025 Plans: Effort to address/complete the crucial need to continuously integrate zero trust concerns into user profiling systems. FY 2026 Plans: Project ends in FY 2025. FY 2025 to FY 2026 Increase/Decrease Statement: Decrease of \$0.301M due to project completion in FY 2025. Project transitions to USTRANSCOM Cloud Environment.		0.739	0.301	0.000
Title: Airdrop Mission Planner Multiservice Interoperability Description: Develop Android Tactical Assault Kit (ATAK) and Windows Tactical Assault Kit (WINTAK) for United States Army (USA), Air Force (USAF), Marine Corps (USMC), United States Special Operations Command (USSOCOM) and other services or organizations conducting airdrop operations. Lead technical partner is U.S. Army Combat Development Command. FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2026 Plans: Mission planning software will be matured to increase capability and interoperability, with deployments on both Android and Windows platforms. Software will be tested in simulated operational environment and validated against existing approved mission planning system. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2025 work funded by Project 630004, (Deployment and Distribution Prototyping). Increase of \$0.800M due to funding shift to project 640216, (Deployment and Distribution Enterprise R&D), to support system transitioning to high fidelity and		0.000	0.000	0.800

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
realistic operating environment. Transition to U.S. Army's Program Executive Office Soldier Product Manager Soldier Clothing and Individual Equipment (PM SCIE), Parachute Navigation System PoR, USAF Mission Planning PM, Air Force Life-cycle Management Center PM, and USSOCOM Acquisition, Technology and Logistics providing the widest dissemination to all (Army, Marines, Navy, and USAF) theater special operation commands.				
Title: Aerial Delivery - Low Cost Modular GPS Denied Kit Description: Demonstrate a low size, weight, power and cost kit that can provide Global Positioning System (GPS) denied navigation, aerial delivery platforms. Technical Partner U.S. Army Combat Development Command. FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2026 Plans: Flight computer integration that includes six-month sprints that will be executed in which each capability will be incrementally added to the hardware/software baseline. FY 2025 to FY 2026 Increase/Decrease Statement: The FY 2026 funding increase of \$0.381M is a result of project maturation and commencement of the demonstration in an operational environment phase. Transition to Army/USMC/SOCOM Joint Precision Airdrop System (JPADS) Programs of Record (PoRs).		0.000	0.000	0.381
Title: Drone Supported Service Deployment Description: Use of drones to monitor and optimize deployment and distribution operations. Drone mapping technology for capturing data for input to systems such as the Integrated Computerized Deployment System (ICODES) and the Transportation Geospatial Information System (TGIS). FY 2025 Plans: FY 2024, Project 640216, Drone Supported Service Deployment completed. FY 2025 to FY 2026 Increase/Decrease Statement: Transition to Integrated Computerized Deployment System (ICODES) and the Transportation Geospatial Information System (TGIS).		0.350	0.000	-
Title: Petroleum Undersea Sustainment Hose		0.500	0.300	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: Provide an agile, submersible over-the-shore conduit that can be pre-positioned or immediately employed from vessels of opportunity such as a commercial offshore supply vessel (OSV). Technical partner is Naval Surface Warfare Center Carderock. FY 2025 Plans: Finalizing and demonstrate the over-the-shore (OTS) fuel delivery system providing a rapidly deployable conduit that can be pre-positioned or employed from vessels of opportunity. FY 2026 Plans: FY 2025, Project 640216, Petroleum Undersea Sustainment Hose completed. FY 2025 to FY 2026 Increase/Decrease Statement: Decrease of \$0.300M due to Petroleum Undersea Sustainment Hose project completion in FY 2025. Transition to USN - Joint Petroleum Over-the-Shore (JPOTS), Sea-based Petroleum Distribution System (SPDS).				
Title: Airdrop System - Precision Extended Glide Description: Demonstrate a long range powered parafoil system to reduce risk to delivery aircraft. Technical partner is U.S. Army Combat Development Command. FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2026 Plans: Complete testing and demonstration of parafoil system to reduce risk to delivery aircraft in an operational environment. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2025 work funded by Project 630004, (Deployment and Distribution Prototyping). Increase of \$0.800M due to funding shift to project 640216, (Deployment and Distribution Enterprise R&D), to support system transitioning to high fidelity and realistic operating environment. Transitions to 2000 lbs Joint Precision Airdrop System (JPADS) and 500 lbs USMC JPADS POR.		1.300	0.800	1.600
Title: Container Airdrop Description: 3-year project to enable the airdrop of a standard 20ft International Standard Organization (ISO) container from a C-17 utilizing standard low altitude airdrop methods. Technical partner is U.S. Army Combat Development Command.		0.000	0.000	0.200

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
<i>FY 2025 Plans:</i> In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment.				
<i>FY 2026 Plans:</i> Continue demonstrating and testing in an operational environment the integrated platform container locking system that conceals the payload and reduces risk to ground forces.				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding increased of \$0.200M due to project testing in operational environment phase. Acquiring test aircraft and test ranges. Transition to US Army Product Manager Force Sustainment Systems, who is responsible for all Army cargo airdrop, field services, and shelter system Programs of Record.				
<i>Title:</i> Scalable Autonomous Modular Propulsion Kits <i>Description:</i> Develop scalable modular propulsion kits with marine automation for installation on ocean/riverine commercial barges. Technical partner is U.S. Army Engineering Research and Development Center.		0.891	0.500	0.450
<i>FY 2025 Plans:</i> FY 2025 development/funding is Project 630004, Deployment and Distribution Development & Prototyping. Deliverables will be provided through three spirals. Spiral one will build and test a scaled kit for a barge of opportunity. Spiral two will develop and test stand-off command and control capabilities. Spiral three will develop and test fully autonomous command and control capabilities.				
<i>FY 2026 Plans:</i> Demonstrate prototype, in operational environment, capabilities using inland platforms of opportunity and Improved Ribbon Bridge (IRB) sections to provide autonomous platform support to enable end-to-end distribution, storage, and supply of fuel and other bulk logistics to shore, aviation, and other platforms.				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Decrease of \$0.050M due to final prototype demonstration in an operational environment and project completion. Transition to 1) Naval Facilities Engineering Command Expeditionary Programs Office (NEPO) Sealift program; 2) Office of the Chief of Naval Operations, Expeditionary Warfare (OPNAV N95), Strategic Mobility and Combat Logistics (OPNAV N42), and PM Watercraft.				
<i>Title:</i> Theater Mitigation Alternatives at Military Entry Control Facilities		1.136	0.000	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0604776F I Deployment & Distribution Enterprise R&D		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: Research and physical testing needed to gather and analyze data for improving Entry Control Facilities (ECF) design and operations, improve road safety on installations and reduce overall costs. FY 2025 Plans: Project ended in FY 2024. FY 2025 to FY 2026 Increase/Decrease Statement: No FY 2025 to 2026 Increase/Decrease due to project completion in FY 2024. Transition to DOD Traffic Safety Program.				
Title: Buoyant Roll On/Roll Off Interface Kit Description: Prototype consisting of the Roll-On/Roll-Off (RO/RO) ramp to interface to a commercial supply vessel and a section of floating causeway and ancillary equipment sufficient to conduct a limited operational assessment. Technical partner is Naval Surface Warfare Center Carderock. FY 2025 Plans: Installation and at sea testing. Project Completed in FY 2025. FY 2025 to FY 2026 Increase/Decrease Statement: Decrease of \$0.500M due to project completion in FY 2025. Transition: OPNAV N95 Expeditionary Warfare, Landing Ship-Medium.		0.250	0.500	-
Title: 35 Thousand Foot Airdrop Description: Develop capabilities to airdrop from 35 thousand feet to increase aircraft standoff range from threat. Technical partner is U.S. Army Combat Development Command. FY 2025 Plans: Project ended in FY 2024. FY 2025 to FY 2026 Increase/Decrease Statement: No FY 2025 to 2026 Increase/Decrease due to project completion in FY 2024. Transitioned to Product Manager Force Sustainment Systems: JPAD 2K PoR, Low-Cost Aerial Delivery System PoR, USMC Ultra-lightweight JPADS.		0.500	0.000	-
Title: Enhanced Vision Navigation for Joint Precision Airdrop System Description: Funds contract support for Air Mobility Command to support the development of advanced technologies to improve airdrop, aerial refueling, patient evacuation and other global mission in support of the joint warfighter.		0.537	0.000	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
<i>FY 2025 Plans:</i> In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) efforts were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment.				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> No FY 2025 to 2026 Increase/Decrease due to project work shifted to Project 630004.				
<i>Title:</i> Aerial Delivery Platform <i>Description:</i> Platform for air dropping multiple vehicles. Utilize existing airdrop platform paradigm to generate a 40-ft platform and demo example payloads through flight testing as proof of concept. Technical partner U.S. Army Combat Development Command.		1.445	0.000	-
<i>FY 2025 Plans:</i> Project ended in FY2024. Utilize existing airdrop platform paradigm to generate for a 40-ft platform and demo example payloads through flight testing as proof of concept.				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> No FY 2025 to 2026 Increase/Decrease due to project completion in FY 2024. Transition to US Army Product Manager Force Sustainment Systems (PM FSS).				
<i>Title:</i> Modular Autonomous Ready Dynamic Positioning System <i>Description:</i> Positioning system for sealift lighterage assets to enhance operational safety and maximize efficiency. Leverages autonomous software developments made by Navy program offices. Technical partner is Naval Surface Warfare Center, Philadelphia Division.		1.181	0.764	-
<i>FY 2025 Plans:</i> Completion of purchase of long lead items required for at-sea testing.				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Decrease of \$0.764M due to project completion in FY 2025. Transitions to Sealift Support Program and Improved Navy Lighterage System (INLS) craft. Following deployment, the program of record will reside with Naval Expeditionary Warfare Center Sealift and be available to other Navy platforms.				
<i>Title:</i> AI-Powered Sensitive Data Masking <i>Description:</i> Focus on masking structured data, building an organizational knowledge base, and masking		0.000	0.000	0.600

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
unstructured data.				
FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) efforts were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment.				
FY 2026 Plans: Refine and test the entirety of the Identification and Masking pipelines. This will include iterative approaches with operational experts to ensure the process is establishing accurate and reliable functionality.				
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2025 Funding/Development Project 630004, (Deployment and Distribution Development & Prototyping). Increase of \$0.600M due to commencement of demonstration in an operational environment phase of the project. Transitions to USTRANSCOM Cloud Environment.				
Title: Iron Spider Description: Capability to effectively secure mission and operational data over non-classified internet protocols while communicate with commercial partners/vendors for defense-related mission needs and sustainment support for USTRANSCOM operations in support of other CCMDs. Technical partner is Air Force Research Lab.		0.775	0.000	-
FY 2025 Plans: Project ended in FY 2024.				
FY 2025 to FY 2026 Increase/Decrease Statement: No FY 2025 to 2026 Increase/Decrease due to project completion in FY 2024. Transition to Air Mobility Command's Global Decision Support Command and Control system.				
Title: Massachusetts Institute of Technology Lincoln Labs (MIT-LL) Description: Partnership with MIT-LL to research efforts to improve enterprise operational architecture supporting high-end analytics, integrated information technology/data structures, understanding of cloud capabilities and multi-level cyber security defense. Algorithm and AI innovations being spirally transitioned to numerous USTRANSCOM and Component systems/environments.		2.435	0.000	-
FY 2025 Plans:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) efforts were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2025 to FY 2026 Increase/Decrease Statement: Spirally transition capabilities to improve the effectiveness and efficiency of USTRANSCOM systems/decision support is BA3. No FY 2025 to 2026 Increase/Decrease due to funding shift to BA 03 in FY 2025.				
Title: Modeling & Simulation Innovation Description: Funds Air Force Institute of Technology (AFIT) student research/faculty-assisted projects (e.g., Joint Transportation Asset Scheduling Kit, Next Generation Cargo Capability, Applying Post Modern Portfolio Theory to Mitigate Risk in International Shipping, Optimal CH-47/C-130 Workload Balance, Remotely Piloted Aircraft Performing Airdrop Mission). Focused on USTRANSCOM staff provided research needs that address Joint Deployment and Distribution Enterprise (JDDE) and Joint Petroleum Enterprise (JPE) challenges. FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) efforts were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2025 to FY 2026 Increase/Decrease Statement: No FY 2025 to 2026 Increase/Decrease due to funding shift to BA 03 in FY 2025.		0.130	0.000	-
Title: Aerial Delivery and Autonomous Deployment of Unmanned Vehicles Description: Ability to deliver and deploy unmanned systems without personnel on the ground will significantly enhance the ability to employ autonomous vehicles and provide greater flexibility to commanders while keeping ground forces out of harms way. Technical partner is U.S. Army Development Command. FY 2025 Plans: FY 2025 will be full system testing with both simulated and actual airdrops of ballast weights then live unmanned vehicles. Transition to PM Force Sustainment Systems (FSS) - Rapid Rigging & Derigging Airdrop System (RRDAS). FY 2026 Plans: Project ended in FY 2025. FY 2025 to FY 2026 Increase/Decrease Statement:		1.904	0.564	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Decrease of \$0.564M due to project completion in FY 2025. Transition to PM Force Sustainment Systems (FSS) - Rapid Rigging & Derigging Airdrop System (RRDAS)				
Title: Program Execution Description: Provide technical assistance and program management support to the USTRANSCOM RDT&E Program. Coordinate with Joint Deployment and distribution partners on project execution, monitoring costs, scope, schedule, and performance. Fund Government travel in support of Program Management. FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) efforts were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2025 to FY 2026 Increase/Decrease Statement: No FY 2025 to 2026 Increase/Decrease due to funding shift to BA 03 in FY 2025. Programmed shifted to Project 630004.		1.070	0.000	-
Title: Analyzer Driven Data Integrity Description: Provide a deeper understanding of the risk anomalous data can pose on mission operations via machine learning, rule-based analytics and statistical models to address unknown anomalies. FY 2025 Plans: Develop a proof-of-concept and then prototype of ADDI system to reduce risk by focusing on the demonstration of high-risk threads of execution. High risk threads are the ability to properly parse real world data, detect expected anomalies, and keep up with surge events. FY 2026 Plans: Project ended in FY 2025. FY 2025 to FY 2026 Increase/Decrease Statement: Decrease of \$0.238M due to project completion in FY 2025. Transition to USTRANSCOM's cloud environment.		0.397	0.238	0.000
Title: Strategic Theater Orchestration and Resource Management Description: Provide ability more effectively and efficiently manage theater lift assets. Technical partner was U.S. Army Combat Development Command Ground Vehicles. FY 2025 Plans:		0.314	0.000	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2025 to FY 2026 Increase/Decrease Statement: No FY 2025 to 2026 Increase/Decrease due project cancellation. Canceled due to same functionality being developed under the Joint Transportation Management System (JTMS). Project began in FY 2023, canceled in FY 2024 along with associated FY 2025 and FY 2026 funding.				
Title: Risk Assessment and Vetting for the Enterprise Description: Effort will provide the ability to assess deployment distribution risk factors. Vetting of foreign vendors serving as prime or subcontractors on US contracts. Operational lead is USCENTCOM. FY 2025 Plans: Complete the development of the risk assessment and vetting tool to provide Combatant Commands with sufficient data and information to assess the risk of a vendor of interest. FY 2026 Plans: FY 2025, Project 640216, Risk Assessment and Vetting for the Enterprise completed. Defense Counterintelligence and Security Agency and Defense Intelligence Agency are potential transition targets. Data sets produced by RAVE will be of interest to geographic Combatant Commands and SOCOM. FY 2025 to FY 2026 Increase/Decrease Statement: Funding decrease of \$0.700M due to project completion. Transition to Defense Counterintelligence and Security Agency and Defense Intelligence Agency.		1.900	0.700	0.000
Title: Component Level Operational Decision Advantage Description: Component-level Air Forces (AFFOR) Command and Control and processes for full-spectrum competition against high end adversaries. CODA will leverage prior AFRL research, organizational development techniques, and state of the art technologies to equip the AFFOR with capabilities which contribute to closing this performance gap and enabling USTRANSCOM's air component to meet anticipated and emerging maneuver requirements of the joint force. Develop detailed decision support tool that provides insight at the component level. Technical partner is U.S. Air Force Research Lab. FY 2025 Plans:		0.857	0.000	0.700

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F <i>I Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. FY 2026 Plans: Finalize the development and demonstrate the agile software needed for component-level C2 and decision support through integrated project management tools, work-flow automation, knowledge management, and concept visualization. Intended PoR is Program Executive Office for Digital and Enterprise Services-supported life-cycle maintenance. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase of \$0.500M due to final testing and demonstartiong of software. Intended PoR for software: Program Executive Office for Digital and Enterprise Services-supported life-cycle maintenance.				
Title: Oversight Description: Enable continuous tracking of adversary cyber groups and campaigns targeting USTRANSCOM and USINDOPACOM enterprise and their partners. Technical partners are USCYBERCOM and Air Force Research Lab. Operational lead is USINDOPACOM. FY 2025 Plans: FY 2024, Project 640216, Oversight completed. FY 2025 to FY 2026 Increase/Decrease Statement: No FY 2025 to 2026 Increase/Decrease due project completion in FY 2024. Transition to Joint Forces Headquarters-Cyber (Navy) Forward for immediate fieldling in USINDOPACOM.		1.330	0.000	-
Title: Cyber Mission Assurance Technologies Description: Near real-time understanding of the operational impact of cyber risks, threats, and disruptions. Technical partners are Air Force Research Lab and USCYBERCOM. Operational leads are USINDOPACOM and Air Mobility Command. FY 2025 Plans: In FY 2025, PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) efforts were transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to align with funding with the development of system prototypes and test in a simulated environment. CMAT project funding concludes in FY 2025. FY 2025 to FY 2026 Increase/Decrease Statement:		3.170	0.173	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Decrease of \$0.173M due to project completion in FY 2025. Transition to JCC2 (Joint Cyber Command and Control) - USCYBERCOM CRMT (Cyber Risk Management Toolkit).				
Title: KC-135 Drone Delivery Mechanism Description: Onboard defensive/ISR capability for operations in contested environment. A drone delivery mechanism capable of launching unmanned aerial vehicles (UAV) from a KC-135 in flight to provide an onboard defensive capability. A prototype integrating a common launch tube (CLT) with a modified KC-135 aft hatch door to produce and determine the viability of this concept. FY 2025 Plans: FY 2024, Project 640216, KC-135 Drone completed. FY 2025 to FY 2026 Increase/Decrease Statement: Air Mobility Command and Air Force Life Cycle Management Center in discussions on best approach to transition the KC-135 Drone Deliver Mechanism (DDM) to the appropriate POR and implement the capability on the KC-135 fleet. No FY 2025 to 2026 Increase/Decrease due to project completion in FY 2024.		0.215	0.000	-
Accomplishments/Planned Programs Subtotals		23.733	4.840	4.996
D. Other Program Funding Summary (\$ in Millions) N/A Remarks Overall, in FY 2025 27 Million in PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) funding transferred to PE 0604776F, (Deployment & Distribution Enterprise R&D), Project 630004, (Deployment and Distribution & Prototyping) to support the creation of a new program in Budget Activity 3, Advanced Technology Development (ATD), in FY 2026 to reflect correct alignment of funds to research work being performed.				
E. Acquisition Strategy Requirements for joint deployment and distribution enterprise technology enhancements are annually identified, validated and prioritized by the Joint Deployment & Distribution Enterprise (JDDE) community (which consists of Joint Staff, Services, Combatant Commands, and select Defense Agencies (e.g., DLA). Pursuit of the development of new/improved capabilities to meet these requirements is managed by the United States Transportation Command (USTRANSCOM). Prototype products, once evaluated by the users, are spirally transitioned by the operational community with majority of new technologies being transitioned to Service Programs of Record.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D						Project (Number/Name) 640216 / Deployment and Distribution Innovation			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Integrated Logistics Support	Various	USTRANSCOM : Scott AFB, IL	-	23.733		4.840		4.996		-		4.996	-	-	-
Subtotal			-	23.733		4.840		4.996		-		4.996	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	23.733		4.840		4.996		-		4.996	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4			R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D		
			Project (Number/Name) 640216 / Deployment and Distribution Innovation		

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Deployment and Distribution																												
Integrated Logistics Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D	Project (Number/Name) 640216 / Deployment and Distribution Innovation	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Deployment and Distribution				
Integrated Logistics Support	1	2024	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	PE 0604858F / <i>Tech Transition Program</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	232.375	239.342	134.833	0.000	134.833	-	-	-	-	-	-
640410: <i>Tech Maturation and Risk Reduct/Development</i>	0.000	0.000	0.000	6.481	0.000	6.481	-	-	-	-	-	-
645350: <i>Experimentation</i>	0.000	125.108	85.608	14.342	0.000	14.342	-	-	-	-	-	-
645351: <i>Prototyping</i>	0.000	97.569	143.594	15.141	0.000	15.141	-	-	-	-	-	-
645352: <i>Architecture Design and Evaluation</i>	0.000	9.698	10.140	98.869	0.000	98.869	-	-	-	-	-	-

Note
 This program, BA 4, PE 0604858F, project , Tech Maturation and Risk Reduction, is a new start.

A. Mission Description and Budget Item Justification

Capability development provides the analytic, technical, and programmatic rigor necessary to address capability gaps and opportunities to refine and mature future programs of record, prioritizing and accelerating transition of capabilities in collaboration with operational stakeholders. The Capability Development Enterprise is focused on maturing and transitioning high-impact warfighting capabilities aligned to Air Force Future Force Design through robust capability development.

The Tech Transition Program addresses the gap between initial system-level technology or concept development and demonstration, and successful acquisition and operational capability implementation. The Tech Transition Program matures new warfighting concepts, rapidly develops fieldable prototypes, and performs operational experimentation to assess military utility innovative concepts. This program utilizes multiple approaches and integrated activities to field technology for the warfighter focusing on efforts that are directly tied the USAF Force Design and OSD's Joint Warfighting Concept. The Tech Transition Program allows acquisition program managers (the capability developers) and warfighters (the capability recipients and end users) to prototype, integrate, and demonstrate candidate technologies and assess them in an operational system of systems environment in partnership with ICC, Warfighter & Combatant Commanders, Major and Field Commands, Program Executive Officers, schoolhouses, simulation facilities, and development planning organizations.

Operational experimentation activities explore new concepts and their applications in relevant operating environments within a system-of-systems context taking risks early in the acquisition process to drive optimized and efficient acquisition approach warfighter capability delivery to fully assess operationalization requirements, to include but not limited to suitability, supportability, maintainability, and logistics.

Prototyping enables integration and demonstration of emerging technologies to quickly move them into warfighting capability, allowing for iterative development and increased use of commercial technology.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force						Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 Program Element (Number/Name) PE 0604858F I Tech Transition Program				
Tech Maturation and Risk Reduction/Development competitively assesses commercial solutions to identify transitionable system components for rapid insertion and delivery.								
Architecture Design and Evaluation is executed by the Department of the Air Force (DAF) Program Executive Office (PEO), and Command, Control, Communications and Battle Management (C3BM) with oversight by the Secretary of the Air Force along with the Chief of Staff of the Air Force, Chief of Space Operations, and Senior Acquisition Executive. This activity is supported by the Air Force Research Laboratory.								
The rapidly evolving technology landscape requires this program to pivot technical areas and solutions as requirements and the warfighting and resource environments change.								
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.								
The FY 2026 request for the Tech Transition Program includes \$134.833 million of discretionary and \$164.000 million of mandatory (reconciliation) for a total of \$298.833 million. The mandatory funds focuses efforts on low-cost munitions and supply chain.								
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.								
B. Program Change Summary (\$ in Millions)				FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget				210.806	234.342	229.573	0.000	229.573
Current President's Budget				232.375	239.342	134.833	0.000	134.833
Total Adjustments				21.569	5.000	-94.740	0.000	-94.740
• Congressional General Reductions				0.000	0.000			
• Congressional Directed Reductions				-9.000	0.000			
• Congressional Rescissions				0.000	0.000			
• Congressional Adds				34.600	5.000			
• Congressional Directed Transfers				0.000	0.000			
• Reprogrammings				2.620	0.000			
• SBIR/STTR Transfer				0.000	0.000			
• Other Adjustments				-6.651	0.000	-94.740	0.000	-94.740
Congressional Add Details (\$ in Millions, and Includes General Reductions)								
Project: 645350: Experimentation								
Congressional Add: Program increase - reconfigurable hybrid electric rotorcraft								
						FY 2024	FY 2025	
						10.000	0.000	

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	
Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2024	FY 2025
Congressional Add: <i>Program Increase - Operational Additive Manufacturing Capabilities</i>		14.500	2.000
Congressional Add: <i>Program Increase Advanced Air Mobility</i>		9.500	0.000
Congressional Add Subtotals for Project: 645350		34.000	2.000
Congressional Add Totals for all Projects		34.000	2.000
Change Summary Explanation			
In FY 2024, funding increased by \$2.620 million due to programmatic adjustments within the Research, Development, Technology and Evaluation portfolio. This increase reflects a strategic realignment to optimize core capability areas and improve resource efficiency.			
In FY 2024, decrease of \$6.651 million in Other Adjustments was due to alignment of programming to actual execution.			
FY 2026 funding decreased compared to FY 2025 by \$110.990 million to focus efforts on low-cost munitions and supply chain (Family of Affordable Mass Missiles being a primary focus area).			
Additional changes include:			
FY 2026 was reduced by \$0.943 million for civilian personnel full-time equivalents and funding to optimize the workforce in compliance with Executive Order 14210, "Implementing the President's Department of Government Efficiency Workforce Optimization Initiative."			
FY 2026 was reduced by \$.606 million contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 640410 / Tech Maturation and Risk Reduct/ Development			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640410: Tech Maturation and Risk Reduct/Development	0.000	0.000	0.000	6.481	0.000	6.481	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
This program, BA 4, PE 0604858F, project , Tech Maturation and Risk Reduction, is a new start.

A. Mission Description and Budget Item Justification

The DoD requires counter small, unmanned aircraft system (C-sUAS) defeat options with minimal collateral damage in situations where friendly forces and/or civilians are in close proximity to the threat, or where local regulation does not allow for electronic attack or kinetic effectors that have broad down range impact. Specifically existing solutions poorly equipped to be effective against higher speed and multiple targets (e.g salvos or swarms). The funding will directly support Defense Innovation Unit (DIU) Replicator 2 Commerical Solutions Opening (CSO) effort to onboard additional low collateral defeat (LCD) options into the Department of the Air Force (DAF) C-sUAS system. Potential options could fall under localized directed energy, kinetic with low-collateral risks, capture/entanglement, localized electronic attack, and/or other novel effectors.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Tech Maturation and Risk Reduction	-	-	6.481
Description: This effort will conduct competitive rapid prototyping to advance USAF counter-small UAS (C-sUAS) Low Collateral Defeat (LCD) capabilities. This prototyping leverages the Defense Innovation Unit (DIU) LCD Commercial Solution Opening (CSO) and follows down-selection from the November 2025 LCD test conducted by DIU and the Joint CUAS Office (JCO). The goal is to deliver enhanced C-sUAS solutions capable of defeating advanced threats while minimizing collateral effects in populated areas, congested airspace, and friendly electromagnetic environments. FY 2026 Plans: Conduct competitive rapid prototyping leveraging the Defense Innovation Unit (DIU) Low Collateral Defeat (LCD) Commercial Solution Opening (CSO) following down-select from the November 2025 LCD test to be conducted by DIU and the Joint CUAS Office (JCO). The rapid prototyping will advance USAF counter small UAS (C-sUAS) capabilities to deliver LCD capabilities capable of defeating more advance threats while reducing risk of collateral effects to surrounding populated areas, congested air spaces, and friendly electromagnetic environments. FY 2025 to FY 2026 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 640410 / Tech Maturation and Risk Reduct/ Development		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2026 increased compared to FY 2025 by \$6.481 million to directly support Defense Innovation Unit Replicator 2 Commercial Solutions Opening efforts for advanced capabilities.				
Accomplishments/Planned Programs Subtotals		-	-	6.481
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy Acquisition strategies will be customized for each Tech Maturation and Risk Reduction project, ensuring alignment with specific Air Force priorities.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program						Project (Number/Name) 640410 / Tech Maturation and Risk Reduct/ Development			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Tech Maturation and Risk Reduction	TBD	Not specified. : TBD	-	-		-		6.481	Apr 2026	-		6.481	-	-	-
Subtotal			-	-		-		6.481		-		6.481	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		6.481		-		6.481	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4			R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program		
			Project (Number/Name) 640410 / Tech Maturation and Risk Reduct/ Development		

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Tech Maturation and Risk Reduction																												
Risk Reduction																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 640410 / Tech Maturation and Risk Reduct/ Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Tech Maturation and Risk Reduction				
Risk Reduction	1	2026	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645350 / Experimentation			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
645350: Experimentation	0.000	125.108	85.608	14.342	0.000	14.342	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Experimentation project funds experimentation campaigns to explore new concepts and their applications in operationally relevant environments and within a system-of-systems warfighting context. Operational Experimentation Campaigns are directly aligned and integrated with the OSD and DAF priorities. Concepts and enabling technologies explored in this activity include but are not limited to target custody; counter-targeting; airborne targeting and tracking; autonomy; spectrum warfare; artificial intelligence; machine learning; expeditionary base defense; agile combat operations; position, navigation, and timing; and joint all-domain operations. These technologies hold great promise; yet their transition to acquisition programs and fielded capabilities is typically hampered due to uncertainties regarding their military utility and organizational adoption. Experimentation campaigns assess hypotheses that new capabilities will deliver decisive competitive advantage against our adversaries in a dynamic threat environment. These campaigns dramatically shorten and reduce the overall cost of the acquisition process by delivering robust information including operational utility assessments, training, tactics, and procedures (TTPs), total life cycle cost estimates, preliminary product support strategy, reliability and maintainability metrics, operational utility assessments and Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities and Policy implications. Campaigns reduce follow-on acquisition and implementation risk thru early accomplishment of key learning objectives.

A key element of the experimentation campaigns is strong stakeholder partnerships and buy-in from senior DAF leadership including the Secretary of the Air Force, HAF/A5/7, HAF/A8, US Space Force Futures and Integration, Office of the Assistant Secretary of the Air Force for Acquisition, Technology and Logistics, warfighting Major Commands and Combatants Commands (capability recipients/end users), Space and Missile Systems Center, and Air Force Materiel Command (capability developers) that enables rapid transition of capabilities when operational utility, affordability, sustainability, and industrial capacity meet the Department of Air Force needs.

Experimentation campaigns are centered on an operational level warfighting concept to provide context for assessment. They use wargaming, simulation, demonstrations, and field/flight experimentation to evolve, refine, and validate the warfighting concepts leading to solid, evidence-based materiel and non-materiel capability development approaches with associated recommendations. Experimentation campaigns improve the effectiveness of operations by refining concepts and generating new information to address challenging threats of the future which aids the fielding of advanced technologies by providing the credible evidence needed to make sound strategic decisions and investment choices. Warfighting concepts evolve based on the latest threat assessments and the Experimentation Campaigns are likewise modified to ensure the Department of the Air Force retains a competitive advantage. Much of the Operational Experimentation efforts are more thoroughly described at higher classification levels.

Experimentation is focused on rapid learning and then pivoting existing or future capability development efforts based on that knowledge to ensure the most pressing operational gaps are addressed and our warfighting advantages are preserved. Further details can be provided in the appropriate forum.

These funds may be used for program management support costs, but are not limited to, hardware, software, travel, contractor support services, civilian pay, supplies, facilities, infrastructure.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>		Project (Number/Name) 645350 / <i>Experimentation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
Title: Experimentation Campaigns Description: Execution of Experimentation Campaigns to identify the competitive advantages of operational warfighting concepts and the technologies that enable these concepts. Activities may include flight tests, operational exercises, joint-service exercises, digital engineering, system-of-systems integration facilitated workshops, wargaming, modeling and simulation, and virtual and hardware prototyping to enable experimentation campaigns. FY 2025 Plans: - Continue to execute Experimentation Campaigns that aim to assess and enable competitive advantages against near-peer adversaries and advance multi-domain operations to bring a convergence of effects, as directed by Department of the Air Force Leadership. - AFRL Hawkeye Experimentation Campaign will continue to perform an end-to-end operational experimentation of a long-range, joint-service kill chain, scale the capability up to the throughput needed for an operational system, and work with DOD USG organizations to transition the capability onto a DOD digital infrastructure. All relevant data from multiple domains is shared to contribute to the optimized joint-service targeting solution. The accuracy and latency of each data stream is coherently fused to form optimal targeting information. The target information is then passed through multiple communications pathways to the platforms. Under the FY 2019-2022 Hawkeye effort, all key elements were integrated in a simulated kill chain and demonstrated in live testing. Characterized of each element was completed at a limited scale and shown to be effective. The current effort fully integrates the Hawkeye effort into existing and new more resilient, kill chains, scales the advancements to large numbers of platforms across the DoD, and transitions the capability to an operational digital infrastructure. Specifically, in FY 2025, funding will focus on operational testing of weapon/target pairing capabilities and implementation of track extraction techniques. FY 2026 Plans: - Hawkeye Experimentation Campaign transitioned to Project 645352 Architecture Design and Evaluation in FY 2026. Program support costs transitioned to Project 645351. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding decreased compared to FY 2025 by \$73.908 million due to transfer of Hawkeye to BPAC 645352 and remaining re-coded as part of mandatory spending for low-cost munitions and supply chain (to BPAC 645351).			91.108	73.908	0.000
Title: Emerging Requirements Description: Execution of short-term Experimentation Campaigns to develop or validate novel solutions to operational warfighting challenges. Activities may include flight tests, operational exercises, joint-service exercises, digital engineering, system-of-systems integration facilitated workshops, wargaming, modeling and simulation, and virtual and hardware prototyping to enable experimentation campaigns.			-	3.500	8.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645350 / <i>Experimentation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
<i>FY 2025 Plans:</i> - Execute USAF Chief of Staff's Blue Horizon's program, developing candidate solutions to the Academic Year 2025 strategic dilemma. <i>FY 2026 Plans:</i> - Execute USAF Chief of Staff's Blue Horizon's program, developing candidate solutions to the Academic Year 2026 strategic dilemma. Solutions will address the Homeland Defense, Long Range Kill Chain, Counter-High Value Airborne Asset, and Counter-Surface Action Group missions. - Conduct rapid experimentation and assessment of candidate solutions addressing emerging capability gaps to inform potential follow-on development, projects such as Counter-Small Unmanned Aircraft Systems (C-sUAS), High-Value Airborne Asset (HVAA) Protect, and other potential emerging projects. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 funding increased compared to FY 2025 by \$4.500 million to address additional rapid experimentation requirements.			
<i>Title:</i> USNORTHCOM Modeling, Simulation, and Experimentation <i>Description:</i> Conduct USNORTHCOM Homeland Defense modeling, simulation, and experimentation activities and acquisition of systems, equipment, and personnel to execute experiments from concept through demonstration validation. These Campaign of Experiments (COEs) address the Commands Area of Responsibility Capability Gaps identified in the USNORTHCOM Integrated Priority List (IPL). Activities may include modeling and simulation across Joint-Service Exercises, Digital Engineering, and Wargaming. <i>FY 2025 Plans:</i> - Establish USNORTHCOM's Research, Development, Test, and Evaluation (RDT&E) program and initiate a Campaign of Experiments (COE) to drive homeland defense decisions. Develop and align operational research high-performance compute (HPC) capabilities focused on the Commander's prioritized array of experiments. Design modeling, simulation, and experimentation capabilities to detect adversaries and enhance Domain Awareness. <i>FY 2026 Plans:</i> - Develop and mature the USNORTHCOM RDT&E and CoE program to provide innovative solutions and potential capabilities for decision-makers. Leverage a robust, scalable HPC infrastructure to address urgent operational needs through comprehensive experimentation targeting key mission gaps. Conduct modeling, simulation, and experimentation to support USNORTHCOM's role as the DoD Homeland Defense C-sUAS Synchronizer, to improve awareness and detection of adversary activities across the AOR. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i>		-	6.200
			6.342

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645350 / <i>Experimentation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
FY 2026 funding increased compared to FY 2025 by \$0.124 million, due to the rising costs associated with acquiring advanced systems and equipment required to execute experiments, from concept development to demonstration.			
Accomplishments/Planned Programs Subtotals		91.108	83.608
		FY 2024	FY 2025
Congressional Add: Program increase - reconfigurable hybrid electric rotorcraft		10.000	0.000
FY 2024 Accomplishments: Conduct Congressionally directed research.			
FY 2025 Plans: Not applicable.			
Congressional Add: Program Increase - Operational Additive Manufacturing Capabilities		14.500	2.000
FY 2024 Accomplishments: Conduct Congressionally directed research.			
FY 2025 Plans: Not applicable			
Congressional Add: Program Increase Advanced Air Mobility		9.500	0.000
FY 2024 Accomplishments: Conduct Congressionally directed research.			
FY 2025 Plans: Not applicable.			
Congressional Adds Subtotals		34.000	2.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
Experimentation campaigns will aid the advancement and transition of advanced technologies by providing the credible evidence decision makers need to make sound strategic decisions and investment choices, to provide the warfighter with advanced capabilities. Air Force Futures, Air Force Plans and Programs, US Space Force Futures and Integration, and the Office of the Assistant Secretary of the Air Force for Acquisition, Technology and Logistics direct experimentation campaigns. The Air Force Strategic Development Planning and Experimentation (SDPE) Office located at Wright-Patterson Air Force Base, Ohio and Eglin Air Force Base manages and executes each experimentation campaign. Contracting strategies vary based on the activities of each campaign.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645350 / Experimentation

Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Experimentation Campaigns	Various	Various : Various	-	-		1.808	Jun 2025	-		-		-	-	-	-
Experimentation Campaigns Hawkeye	Various	Various : Various	-	43.181	Oct 2024	37.366	Jun 2026	0.000	Jan 2026	-		0.000	-	-	-
Experimentation Campaign Autonomous Attributable Aircraft	Various	Various : Various	-	4.000	Jan 2024	-		-		-		-	-	-	-
Experimentation Campaign Blue Horizons	Various	Various : Various	-	2.000	Nov 2023	3.500	Dec 2024	3.500	Dec 2025	-		3.500	-	-	-
Experimentation Campaign AMTI	Various	Various : Various	-	3.000	Jan 2024	-		-		-		-	-	-	-
AFMC Wargaming	Various	Various : Various	-	0.000		0.000		3.000	Dec 2025	-		3.000	-	-	-
Experimentation Campaign NORTHCOM	Various	Various : Various	-	-		6.200	Feb 2026	6.324	Sep 2026	-		6.324	-	-	-
Congressional Add - operational additive manufacturing capabilities	Various	Various : Various	-	14.800	Sep 2024	2.000	Dec 2025	-		-		-	-	-	-
Congressional Add - advanced air mobility	Various	Various : Various	-	9.800	Sep 2024	-		-		-		-	-	-	-
Congressional Add - reconfigurable hybrid electric rotocraft	Various	Various : Various	-	10.000	Sep 2024	-		-		-		-	-	-	-
Subtotal			-	86.781		50.874		12.824		-		12.824	-	-	N/A

Remarks

Experimentation is focused on rapid learning and then pivoting based on that learning. Therefore, specific plans are not detailed to prevent locking into an approach that will likely shift based on current experimentation efforts. Further budget details can be provided in the appropriate forum.

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Experimentation Campaign Support	Various	Various : Various	-	4.000	Jan 2024	-		-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645350 / Experimentation					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Experimentation Campaign Autonomous Attributable Aircraft Support 1	MIPR	Perduco/GSA : O'Fallon, IL	-	1.000	Nov 2023	-		-		-		-	-	-	-
Experimentation Campaign Hawkeye	Various	Various : Various	-	0.882	Apr 2025	2.700	Jan 2025	-		-		-	-	-	-
Subtotal			-	5.882		2.700		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Experimentation Campaign Test and Evaluation	MIPR	Various : Various	-	5.000	Dec 2023	-		-		-		-	-	-	-
Experimentation Campaign - HABS	C/Various	Not specified. : TBD	-	-		14.500	Jan 2026	-		-		-	-	-	-
Experimentation Campaign Hawkeye	Various	Various : Various	-	3.579	Mar 2024	4.384	Jan 2025	-		-		-	-	-	-
Experimentation Campaign Autonomous Attributable Aircraft T&E 1	MIPR	Various : Various	-	14.260	Feb 2024	-		-		-		-	-	-	-
Blue Horizons	Various	Various : Various	-	1.679	Nov 2023	-		-		-		-	-	-	-
Experimentation Campaign AMTI	Various	Various : Various	-	3.000	Jan 2024	-		-		-		-	-	-	-
Subtotal			-	27.518		18.884		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Experimentation Campaign Program Management Administration Costs	Various	Various : Various	-	4.420	Nov 2023	11.600	Sep 2025	1.518	Sep 2026	0.000		1.518	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645350 / Experimentation					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Experimentation Campaign Program Management Administration Costs - Hawkeye	Various	Various : Various	-	0.507	Apr 2025	1.550	Mar 2026	-		-		-	-	-	-
Subtotal			-	4.927		13.150		1.518		0.000		1.518	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	125.108		85.608		14.342		0.000		14.342	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 4

R-1 Program Element (Number/Name)

PE 0604858F / Tech Transition Program

Project (Number/Name)

645350 / Experimentation

FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
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

Experimentation

Experimentation Campaigns

App Enabled Rapidly Reprogrammable EW/EMS Systems (AERRES)

App Enabled Rapidly Reprogrammable EW/EMS Systems (AERRES)

Base Defense Experiment

Base Defense Experiment - NASAM and HGWS

Blue Horizons Projects

Blue Horizons Projects

Counter AI

Counter AI Experimentation

ADAIR UX

ADAIR UX

Hawkeye

Hawkeye

Pathfinders

Pathfinders

Congressional Add - Operational Additive Manufacturing Capabilities

Congressional Add - Operational Additive Manufacturing Capabilities

Congressional Add - Advanced Air Mobility

Congressional Add - Advanced Air Mobility

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 4

R-1 Program Element (Number/Name)

PE 0604858F / Tech Transition Program

Project (Number/Name)

645350 / Experimentation

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Experimentation				
Experimentation Campaigns	1	2024	4	2028
App Enabled Rapidly Reprogrammable EW/EMS Systems (AERRES)				
App Enabled Rapidly Reprogrammable EW/EMS Systems (AERRES)	1	2024	4	2024
Base Defense Experiment				
Base Defense Experiment - NASAM and HGWS	1	2024	4	2024
Blue Horizons Projects				
Blue Horizons Projects	1	2024	4	2028
Counter AI				
Counter AI Experimentation	1	2024	4	2024
ADAIR UX				
ADAIR UX	1	2024	4	2024
Hawkeye				
Hawkeye	1	2024	4	2026
Pathfinders				
Pathfinders	1	2024	4	2028
Congressional Add - Operational Additive Manufacturing Capabilities				
Congressional Add - Operational Additive Manufacturing Capabilities	1	2024	4	2024
Congressional Add - Advanced Air Mobility				
Congressional Add - Advanced Air Mobility	1	2024	4	2024

Note

Experimentation is focused on rapid learning and then pivoting based on that learning. They are used to determine the competitive advantage a technology or warfighting concept can have over our adversaries and ascertain operational utility. Often Experimentation Campaigns uncover new ways to use existing technology or

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645350 / Experimentation
how to exploit new Science and Technology for our competitive gain. Further schedule details regarding individual experimentation campaigns can be provided in the appropriate forum.		

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645351 / Prototyping			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
645351: Prototyping	0.000	97.569	143.594	15.141	0.000	15.141	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The prototyping project enables demonstration of emerging technologies in an operational environment to determine and evaluate the competitive advantage against our adversaries, how the technology is integrated into the future fight, and acquisition pathways to deliver warfighter capabilities.

Lifecycle prototyping investments focus on three major thrusts: (1) advancing capabilities of legacy weapon systems, (2) militarizing novel, mature commercial technologies, and (3) exploring partnerships with Department of the Air Force Program Executive Officers to rapidly transition technologies. Prototype project investments that advance capabilities of legacy weapon systems focus on kinetic energy effectors for base defense and expeditionary employment operations, and software-defined electronic warfare and communication capabilities. Prototype projects that seek to militarize novel, mature commercial technologies will focus on artificial intelligence, autonomy, cyber warfare capabilities, digital engineering, and novel weapon and aircraft technologies. Other areas may be pursued as the technology landscape evolves.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver emerging technologies. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2025 \$0.997 million was expended for civilian pay expenses in this program element, and in FY 2026 \$2.504 million is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Lifecycle Prototyping	16.933	55.300	9.141
Description: Following strategic Department of Defense and Department of the Air Force direction, cross-functional teams composed of operators, technologists, engineers, acquisition, and requirements personnel from across the Department of the Air Force execute Prototyping Campaigns to determine if and how much of a competitive advantage these systems can produce against our adversaries. Developmental prototypes offer an opportunity to understand the operational utility of a new warfighting concept or technology while avoiding the pitfalls of entering a lengthy, formal acquisition program without the requisite knowledge of performance trade-offs and technical and programmatic risks. Prototypes integrated into carefully crafted operational Experimentation Campaigns provide immediate feedback to Department of the Air Force senior leaders, driving rapid acquisition or divestment with minimal resources. Prototype efforts provide an initial capability, if warranted, that can act as a catalyst for future rapid acquisition. Exploring innovative prototypes that range across the full Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities, and Policy spectrum gives Department of the Air Force senior leaders a quicker understanding of the potential operational utility, leading to better decisions on what to pursue with limited acquisition resources and accelerating acquisition of successful solutions.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645351 / Prototyping	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
FY 2025 Plans: - AFMC/IDO will complete operational testing of the Rapid Dragon (palletized effects) system (Phase 6) while assessing the strategic advantages the system provides against China and other peer adversaries. AFMC IDO will continue to work with DAF, MAJCOM, COCOM, and the Air Force Life Cycle Management Center PEOs to transition the system and warfighting concept as needed. Rapid Dragon will evaluate and integrate new palletized kinetic and non-kinetic effects into the delivery system. The Operational Prototype will be built and integrated into Joint Operations and Allied Partner exercises to understand the operational advantages that can be exploited across services and strategic allied partners. AFMC IDO will continue to work with allied partners to assess the integration of the palletized effects concept in joint coalition exercises. - System for Autonomous ISR support to dynamic Targeting (SAINT) will begin Phase 2 prototype development for the DAF's Custody Engine, which will maintain continual custody of high-value moving targets through cooperative and autonomous orchestration with ISR collection nodes and battlespace manager nodes within the JADC2 enterprise. Phase 2 prototyping will leverage the best-of-breed technologies demonstrated in its Phase 1 competitive down-select activity to develop the Minimum Viable Product (MVP) prototype, targeted for transition into PEO Command, Control, Communications and Battle Management's (C3BM) Battle Network Architecture. The chosen integrator will begin integration of their prototype solution into DAF's Digital Infrastructure and begin establishing interfaces with key services and partnered programs that will comprise the larger Battle Network Architecture. SAINT will then begin to tune and test the prototype using operational data feeds available in the DAF DI and surrogate data representative of emerging data sources in an effort to continually assess prototype performance in maintaining custody of adversary high-value moving targets in support of dynamic targeting. Work will utilize and test sense-making algorithms to provide data fusion from distributed, multi-domain sensing sources to forecast adversarial behaviors and autonomously generate ISR collection needs. - Enterprise Test Vehicles (ETV) conducts multi-phase prototyping and demonstration activities for modular and open-architected ETV - or test "truck" - designs to reduce risk across all future advanced weapons capabilities. ETV demos lead to prototype demonstrations of weaponized ETVs. Each phase cultivates flexibility in integrating internal components to meet evolving weapons requirements while maintaining a keen focus on affordability and the mitigation of prolonged time-to-field cycles. Phases include "proof of manufacturability" demonstrations to prove out high-rate distributed manufacturing methods. Demonstrations are performed to prove out modularity between weapon variants and between third-party vendor components. Technology challenges are performed to identify and stimulate affordable, highly manufacturable components in the marketplace. Demonstrations include maturing different options for weapon employment, to include palletized employment, collaborating air launch, ground launch, and others. Successful demonstration will transition to production. The first demonstration is a low-cost cruise missile design to be used as an affordable mass weapon. FY 2026 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>		Project (Number/Name) 645351 / <i>Prototyping</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
- AFMC/IDO will complete operational testing of the Rapid Dragon (palletized effects) system (Phase 7 Base and Option 1) while assessing the strategic advantages the system provides against China and other peer adversaries. AFMC IDO will continue to work with DAF, MAJCOM, COCOM, and the Air Force Life Cycle Management Center Combat Readiness to transition the system and warfighting concept. Rapid Dragon will evaluate and integrate new palletized kinetic and non-kinetic effects into the delivery system in support of Family of Affordable Mass Missiles (FAMM) and Deployable Intelligence Networked Global Operations (DINGO). The Operational Prototype will be built and integrated into Joint Operations and Allied Partner exercises to understand the operational advantages that can be exploited across services and strategic allied partners. AFMC IDO will continue to work with allied partners to assess the integration of the palletized effects concept in joint coalition exercises. - SAINT work transferred to Project 645352 Architecture Design and Evaluation in FY 2026. - The Modular Weapon Series (M-Series) Enterprise Test Vehicle (ETV) will continue integration of a variety of sub-systems into the ETV test trucks and demonstrate performance through flight testing. Design Cycle 3 ETV demonstration will be a low-cost cruise missile design prototype that could be used as a future affordable mass weapon. Proof of manufacturability demonstrations will be performed to prove out low-cost high-rate distributed manufacturing methods. Demonstrations will be performed to prove out modularity between weapon variants and between third-party vendor components. Additional integrations could include new datalinks, seekers/sensors, navigation and other sub-systems. Demonstrations will include maturing different options for weapon employment, to include palletized employment, fighter/bomber air launch, ground launch, and others. - The Family of Affordable Mass Missiles (FAMM) will be a Modular Weapon Series (M-Series), open-architected munition for long-range, affordability, high producibility, and palletized employment. FAMM lifecycle prototyping activities will include integration and flight demonstrations of affordable and highly manufacturable small turbine engines, seekers/sensors, networked datalinks, collaborative autonomy behaviors, and ordnance (warhead/fuse). Work will also include testing and certification of palletized mass employment munition flight vehicles. - Project Therion drives advanced Airborne Moving Target Indicator (AMTI) sensing, communications, and Command and Control (C2) capabilities. The technology integration will enhance battlespace awareness and C2 with existing platforms, with optionality for integration into future weapon systems. Efforts include requirements refinement, prototype development, and CONOP maturation, pushing towards an operationally relevant flight test. - Pellonia partners with defense and the organic industrial base to upgrade legacy mission systems to enhance self-protection capabilities. The goal is to achieve force projection into highly contested environments utilizing existing fleet structure and enhancing High Value Airborne Asset (HVAA) survivability through increased optimization of legacy assets and new technology.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645351 / <i>Prototyping</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Efforts include prototype development, assessment of CONOPs, and demonstration of a cutting-edge prototype protection package for HVAA.			
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding decreased compared to FY 2025 by \$46.159 million due to the transition of SAINT to Project 645352 Architecture Design and Evaluation.			
Title: Blended Wing Body - Next Generation Aircraft		80.636	88.294
Description: In partnership with other government agencies, allies, industry stakeholders, and private investors, the Blended Wing Body (BWB) aircraft design, manufacture, certification, and flight test campaign will demonstrate a 30% increase in aerodynamic efficiency over traditional tube-and-wing aircraft. For military applications, initial analysis shows increased combat capability for both aerial refueling and cargo aircraft (e.g. an aircraft with 30% increased aerodynamic efficiency, with current commercial off-the-shelf engine technology, can provide at least 60% increased aerial refueling offload at range). Project goals include flight demonstration of a large prototype BWB aircraft with advanced aerodynamic and structural design features for increased fuel efficiency and decreased noise footprint that scales up or down to enable acquisition by a broader community of government and industry stakeholders. This project works in coordination with the Air Force Operational Energy office and key stakeholders from NASA and the FAA.			6.000
FY 2025 Plans: - Critical design activities culminating with critical design review (CDR). Structural model validation via full-scale test articles. Initiated aircraft build to include hardware and tooling purchases for full-scale aircraft assembly. Detailed design and systems integration risk reduction activities via flying qualities lab, iron bird, copper bird, and systems integration lab, to include flight control law refinement, electrical and avionics systems integration testing, propulsion-airframe integration assessments, and landing gear testing. Detailed digital design artifacts for all aircraft systems and structures (e.g. center body, nose, aft body, wings, doors, windows, nacelles, interiors equipment).			
FY 2026 Plans: - Based on FY2025 critical design activities, continue manufacture and assembly of full-scale prototype BWB aircraft for flight demonstration, leveraging significant private cost-share. Continue to develop and utilize digital engineering and systems engineering tools for risk reduction of aircraft build. Based on prior year execution of systems integration lab efforts, conduct Systems Integration Review and subsequently integrate systems for final assembly of aircraft. Includes integration of flight control laws and flight systems, avionics, propulsion/power/fuel systems, and composite materials for non-cylindrical pressure vessel structures. Continue to incorporate life-cycle sustainment cost considerations for digital thread. Flight test planning activities, to include airworthiness assessments for FAA experimental type certification, and continued support from FAA Military Certification Branch to establish path(s) toward certification of future military-derivative aircraft.			
FY 2025 to FY 2026 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645351 / Prototyping		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2026 funding decreased compared to FY 2025 by a total of \$82.294 million. Decrease includes a \$21.000 million private funding reduction through initial flight testing and a \$61.294 million decrease due to programmatic adjustments within the Research, Development, Testing and Evaluation portfolio; this reduction reflects a strategic realignment to optimize capability development and improve resource efficiency.				
Accomplishments/Planned Programs Subtotals		97.569	143.594	15.141
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
Prototyping campaigns will aid the advancement and transition of advanced technologies by providing the credible evidence decision makers need to make sound strategic decisions and investment choices, to provide the warfighter with advanced capabilities. Air Force Futures, Air Force Plans and Programs, US Space Force Futures and Integration, and the Office of the Assistant Secretary of the Air Force for Acquisition, Technology and Logistics direct experimentation campaigns. The Air Force Strategic Development Planning and Experimentation (SDPE) Office located at Wright-Patterson Air Force Base, Ohio and Eglin Air Force Base manages and executes each experimentation campaign. Contracting strategies vary based on the activities of each campaign.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645351 / <i>Prototyping</i>

Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Prototyping Requirements	Various	Not specified. : Various	-	20.274	Mar 2024	-		8.279	Dec 2025	-		8.279	-	-	-
Prototyping Campaign Hawkeye	C/CPFF	Space X : Hawthorne, CA	-	-		-		0.000	Dec 2025	-		0.000	-	-	-
Prototyping Campaign Palletized Munitions (Rapid Dragon) Contract 1	C/CPFF	Lockheed Martin : Orlando, FL	-	-		10.000	Oct 2025	-		-		-	-	-	-
Prototyping Campaign Saint Contract 1	TBD	TBD : TBD	-	-		6.000	Feb 2025	-		-		-	-	-	-
Next Gen Large Aircraft (BWB)	C/FP	JetZero : Long Beach, CA	-	63.965	Jan 2024	83.157	Jul 2025	6.000	Nov 2025	-		6.000	-	-	-
Next Gen Large Aircraft (BWB) - Contracts	Various	Various : Various	-	2.200	Jan 2025	3.546	Jul 2025	-		-		-	-	-	-
Enterprise Test Vehicle (ETV)	Various	Various : Various	-	-		33.770	Jan 2025	0.000	Dec 2025	-		0.000	-	-	-
Franklin Affordable Mass Missile (FAMM)	Various	Various : Various	-	-		-		0.000	Feb 2026	-		0.000	-	-	-
Subtotal			-	86.439		136.473		14.279		-		14.279	-	-	N/A

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Next Generation Large Aircraft Test Support (BWB)	MIPR	Various : Various	-	3.053	Nov 2023	-		-		-		-	-	-	-
Subtotal			-	3.053		-		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645351 / Prototyping					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Next Generation Large Aircraft (BWB)	MIPR	Various : Various	-	2.877	Jan 2024	-		-		-		-	-	-	-
Subtotal			-	2.877		-		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Prototyping Program Management Administration Costs	Various	Various : Various	-	5.200	Nov 2023	7.121	Mar 2025	0.862	May 2026	-		0.862	-	-	-
Subtotal			-	5.200		7.121		0.862		-		0.862	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	97.569		143.594		15.141		-		15.141	-	-	N/A
Remarks															
Additional details can be provided in the appropriate forum.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645351 / <i>Prototyping</i>

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
<i>Lifecycle Prototyping</i>																												
Lifecycle Prototyping																												
Commercial Space Internet (Global Lightning)																												
Rapid Dragon (Palletized Munitions)																												
Regional Operating Picture																												
Hawkeye Prototyping																												
<i>Blended Wing Body</i>																												
Air Vehicle Design																												
Airframe Manufacturing																												
Avionics and Flight Controls																												
Aircraft Integration and Tests																												
Structural Analyses and Tests																												
Aircraft Sub-Systems and Propulsion																												
Flight Simulations																												
Ground Tests (including wind tunnel testing)																												
Loads Tests																												
Flight Readiness, Demonstration, and Initial Test Activities																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 4

R-1 Program Element (Number/Name)

PE 0604858F / Tech Transition Program

Project (Number/Name)

645351 / Prototyping

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Lifecycle Prototyping</i>				
Lifecycle Prototyping	1	2024	4	2028
Commercial Space Internet (Global Lightning)	1	2024	4	2024
Rapid Dragon (Palletized Munitions)	1	2024	4	2024
Regional Operating Picture	4	2024	4	2024
Hawkeye Prototyping	1	2024	4	2028
<i>Blended Wing Body</i>				
Air Vehicle Design	1	2024	3	2025
Airframe Manufacturing	2	2024	4	2026
Avionics and Flight Controls	2	2024	4	2026
Aircraft Integration and Tests	1	2026	1	2027
Structural Analyses and Tests	2	2024	2	2027
Aircraft Sub-Systems and Propulsion	2	2024	4	2026
Flight Simulations	2	2024	1	2027
Ground Tests (including wind tunnel testing)	1	2025	2	2027
Loads Tests	1	2026	3	2027
Flight Readiness, Demonstration, and Initial Test Activities	3	2026	1	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645352 / Architecture Design and Evaluation			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
645352: Architecture Design and Evaluation	0.000	9.698	10.140	98.869	0.000	98.869	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

In September 2022, the Secretary of the Air Force (SecAF) directed the standup of the DAF Integrating Program Executive Office for Command, Control, Communication and Battle Management (DAF PEO C3BM). The construct emerged out of the Operational Imperatives (OI) analysis that identified a significant need for C3BM integration and a greater level of systems engineering and technical discipline across the enterprise to ensure the effectiveness of ABMS in supporting DAF operations. Notably, DAF PEO C3BM combines the previous efforts of the DAF Rapid Capabilities Office (RCO) ABMS program and the DAF Chief Architect Office (CAO). Furthermore, DAF PEO C3BM works in a federated manner with other PEOs across the DAF with C3BM equity to orchestrate end-to-end capability delivery. By bringing the ABMS and CAO portfolio of programs and authorities under a single PEO and then conferring unto that PEO the responsibility to integrate broader DAF battle management and C2 capabilities, one organization now has the architectural authorities to direct technical integration activities across the DAF while also having the acquisition authorities of a PEO to execute organic materiel solutions to field a survivable, distributable command and control capability into the integrated DAF BATTLE NETWORK.

Architecture Design and Evaluation is directed by the DAF PEO C3BM with oversight by the Secretary of the Air Force along with the Chief of Staff of the Air Force, Chief of Space Operations, and Senior Acquisition Executive. This activity is supported by the Air Force Research Laboratory.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Department of the Air Force Tech Architecture. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F, 0605831F and/or 0604858F.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: DAF Architecture Design and Integration	9.698	10.140	10.527
Description: DAF PEO Command, Control, and Communications for Battle Management (C3BM) combined the roles of the Chief Architect and the Chief Engineer into a single office called the Architecture and Systems Engineering (ASE), which is responsible for the technical integrity of the DAF BATTLE NETWORK as we integrate ABMS capabilities, the rest of the DAF's C2 systems, and other Services' capabilities under JADC2. Architecture integration in system-of-systems mission threads and environments is			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645352 / <i>Architecture Design and Evaluation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
critical to deliberately advancing the DAF's technological edge by informing architecture design, acquisition investments, system requirements for future capabilities, and acquisition baseline updates for current systems. The Operational Response Team (ORT) facilitates quick reaction prototyping and experimentation in response to warfighter-led efforts and new relevant technologies. Providing subject matter expertise to support prototyping and experimentation proposed architectures.			
Architecture Design and Evaluation and the Operational Response Team provides the subject matter expertise to develop mission-focused architectures to enable cross-cutting architecture development across Program Executive Offices, Major Commands, and Space Deltas. Architecture Design and Evaluation analyzes science, technology, research, development, and experimentation enterprises to determine the technical and operational feasibility of new technical concepts.			
FY 2025 Plans: Continue to provide subject matter expertise and product development capability to develop and maintain:			
- Continue digital engineering - Create or leverage common way for all the mission integration teams to aggregate various data products and make them available to the community. Fund Model-Based Systems Engineering at multiple security levels, to include TS/SCI and SAP level, for all ASE and DAF/OSD/Joint partners. Develop Modeling & Simulation capabilities to enable evaluation of C3BM systems. - Continue Mission Domain Architectures and Mission Integration Teams - Support operational analysis, architecture modeling, systems engineering, risk reduction, and architecture test and evaluation. - Continue Operational Response Team - Support operational integration and experimentation of C3BM Digital Infrastructure development.			
FY 2026 Plans: Continue to provide subject matter expertise and product development capability to the ASE and ORT to develop and maintain:			
- Digital Engineering - Create or leverage common way for all the mission integration teams to aggregate various data products and make them available to the community. Fund Model-Based Systems Engineering at multiple security levels, to include TS/SCI and SAP level, for all ASE and DAF/OSD/Joint partners. Develop Modeling & Simulation capabilities to enable evaluation of C3BM systems. - Mission Domain Architectures and Mission Integration Teams - Support operational analysis, architecture modeling, systems engineering, risk reduction, and architecture test and evaluation. - Operational Response Team - Support operational integration and experimentation of C3BM Digital Infrastructure development.			
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increased compared to FY 2025 by \$0.387 million due to inflation.			
Title: SAINT		-	0.000
			42.370

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645352 / <i>Architecture Design and Evaluation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Description: System for Autonomous ISR support to dynamic Targeting (SAINT) will begin phase 2 prototype development for the DAF's Custody Engine that will maintain continual custody of high value moving targets through cooperative and autonomous orchestration with ISR collection nodes and battlespace manager nodes among the JADC2 enterprise. Phase 2 prototyping will leverage the best of breed technologies demonstrated in its Phase 1 competitive down select activity to develop the Minimum Value Product prototype targeted for transition into PEO Command, Control, Communications and Battle Management's (C3BM) Battle Network Architecture. The chosen integrator will begin integration of their prototype solution into DAF's Digital Infrastructure and begin establishing interfaces with key services and partnered programs that will make up the larger Battle Network Architecture. SAINT will begin to tune and test the prototype using operational data feeds available in the DAF DI and surrogate data representative of emerging data sources in an effort to continually assess prototype performance in maintaining custody of adversary high value moving targets in support of dynamic targeting. Work will utilize and test sense making algorithms to provide data fusion from distributed, multi-domain sensing sources to forecast adversarial behaviors and autonomously generate ISR collection needs. FY 2025 Plans: N/A FY 2026 Plans: - SAINT funding was previously executed in PE 0604858F Project 645351 in FY 2025 and will be moving to Project 645352 in FY26. Due to reductions in FY 2025, SAINT moved several aspects of integration, including testing with live operational data, to FY 2026. In FY 2026, SAINT will test with live operational data from existing sensors and new advanced sensor systems in a fully integrated system test. The SAINT program will accelerate the build and test an operational prototype for the Air Force Custody Engine to make up for the reductions in FY 2025 minimizing operational impacts. SAINT will continue to improve the ability to maintain continual custody of high value moving targets through cooperative and autonomous orchestration using cross-service, cross-agency, and commercial sensing capabilities to inform battlespace management nodes and ISR collection nodes among the JADC2 enterprise, completing key achievements towards successful transition. The SAINT program will continue to assess the Custody Engine prototype and its ability to extend to additional critical software infrastructure supporting data object management services, battle management services, and sensor and platform orchestration. New data sources and higher fidelity sensing, weapon and target models will be integrated with the SAINT prototype for the purpose of further tuning and assessing the Custody Engine performance in operationally relevant conditions. The SAINT program will participate in joint exercises to gain operator utility feedback. Incremental deliveries to C3BM's Battle Network Architecture will occur to enable prototype transition and integration activities. FY 2025 to FY 2026 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / <i>Tech Transition Program</i>	Project (Number/Name) 645352 / <i>Architecture Design and Evaluation</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
FY 2026 funding increased compared to FY 2025 by \$42.370 million due to the transition of SAINT in Project 645351. The increase in funding from FY 2025 supports the beginning of phase II prototyping development with live operational data. In FY 2025, SAINT was executed under PE 0604858F Project 645351.			FY 2026
Title: Hawkeye Description: Hawkeye will develop and experimentally characterize a long-range, joint-service kill chain. The project will perform end-to-end experimentation against multiple target types, scale the capability to the throughput needed for an operational system, and work with DOD USG organizations to transition the capability onto a DAF digital infrastructure. Relevant data from multiple domains is shared to contribute to the optimized joint-service targeting solution. The accuracy and latency of each data stream is coherently fused to form suitable targeting information against moving adversaries. The target information is then passed through multiple communications pathways to the relevant platforms. Previous Hawkeye efforts demonstrated each key element of the kill chain in live testing at a limited scale. The current effort fully integrates the Hawkeye effort into existing and new more resilient, kill chains, scales the advancements to large numbers of platforms across the DoD, and transitions the capability to an operational digital infrastructure. FY 2025 Plans: N/A FY 2026 Plans: - Continue testing of weapon/target pairing capabilities - Continue end-to-end kill chain experimentation, including advanced communication techniques - Complete transition of minimum viable product to cloud-based digital infrastructure FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increased compared to FY 2025 by \$45.972 million due to the transition of HAWKEYE in Project 645352. Increase supports the continued prototyping and integration of HAWKEYE into Command, Control, Communications and Battle Management (C3BM). In FY 2025, HAWKEYE was executed under PE 0604858F Project 645350.		-	0.000
			45.972
Accomplishments/Planned Programs Subtotals		9.698	10.140
			98.869

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645352 / Architecture Design and Evaluation			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 04 0604006F: Dept of the Air Force Tech Architecture	2.620	2.899	3.138	-	3.138	-	-	-	-	-	-
Remarks											
D. Acquisition Strategy											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645352 / Architecture Design and Evaluation					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
HAWKEYE	Various	Various : Various	-	-		-		46.000	Jun 2026	-		46.000	-	-	-
SAINT	Various	Various : Various	-	-		-		42.400	Jan 2026	-		42.400	-	-	-
C3BM Architecture Development	Various	Various : Various	-	7.262	Oct 2023	8.000	Oct 2024	8.242	Oct 2025	-		8.242	-	-	-
Subtotal			-	7.262		8.000		96.642		-		96.642	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
C3BM ORT Evaluation	Various	Various : Various	-	0.378	Oct 2023	1.000	Oct 2024	1.087	Oct 2025	-		1.087	-	-	-
Subtotal			-	0.378		1.000		1.087		-		1.087	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration	Various	Various : Various	-	2.058	Oct 2023	1.140	Oct 2024	1.140	Oct 2025	-		1.140	-	-	-
Subtotal			-	2.058		1.140		1.140		-		1.140	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.698		10.140		98.869		-		98.869	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0604858F / Tech Transition Program					645352 / Architecture Design and Evaluation			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
DAFTADIE Product Development																												
C3BM Architecture Development																												
Test and Evaluation																												
C3BM ORT Evaluation																												
HAWKEYE																												
HAWKEYE																												
SAINT																												
SAINT																												
Management Services (in Millions)																												
Program Management Administration																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645352 / Architecture Design and Evaluation

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
DAFTADIE Product Development				
C3BM Architecture Development	1	2024	4	2028
Test and Evaluation				
C3BM ORT Evaluation	1	2024	4	2028
HAWKEYE				
HAWKEYE	1	2026	4	2027
SAINT				
SAINT	1	2026	4	2029
Management Services (in Millions)				
Program Management Administration	1	2024	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	PE 0604860F <i>I Operational Energy and Installation Resilience</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	23.270	25.395	49.460	0.000	49.460	-	-	-	-	-	-
644860: <i>Operational Energy and Installation Resilience</i>	0.000	23.270	0.000	0.000	0.000	0.000	-	-	-	-	-	-
644861: <i>Operational Energy</i>	0.000	0.000	0.000	31.409	0.000	31.409	-	-	-	-	-	-
644862: <i>Installation Resiliency</i>	0.000	0.000	25.395	18.051	0.000	18.051	-	-	-	-	-	-

Note

Transfers: In FY 2025, PE 0604860F, Operational Energy and Installation Resilience, Project 644860: Operational Energy and Installation Resilience efforts were transferred into Project 644861: Operational Energy and 644862: Installation Resilience to provide additional program visibility.

Terminations: In FY 2025, Project 644860: Operational Energy and Installation Resilience was terminated.

Distributions: \$16.232 million of the \$25.395 million FY 2025 funds intended for 644861, Operational Energy. However, an administrative error resulted in the full \$25.395 million being shown for 644862, Installation Resiliency vice distributed between the projects as intended. Discovery of the error occurred after the deadline for corrections had passed necessitating documentation of FY 2025 Operational Energy activities as being executed with 644862, Installation Resiliency funds for this budget request submission. Future budget request submissions will reflect the corrected distributions.

A. Mission Description and Budget Item Justification

The Operational Energy and Installation Resilience program develops, matures, prototypes, demonstrates, and assesses technologies, software, and processes for decreasing operational energy risk and increasing installation resilience. Energy is a cross-cutting pervasive need across every weapon system, platform, installation, and austere operating location. The objective of this program is to prioritize, validate performance in a relevant environment, and facilitate implementation of the validated solutions that increase weapon system and platform capabilities (range, endurance, number of sorties refueled, etc.), mitigate supply chain risk, and enhance resilience of supporting infrastructure for increased readiness and lethality.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.688 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.790 million is forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604860F I Operational Energy and Installation Resilience			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	46.305	63.194	43.550	0.000	43.550
Current President's Budget	23.270	25.395	49.460	0.000	49.460
Total Adjustments	-23.035	-37.799	5.910	0.000	5.910
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-22.205	-37.799			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.830	0.000			
• Other Adjustments	0.000	0.000	5.910	0.000	5.910
Change Summary Explanation					
FY 2024: \$23.000 million reduction comprised of a \$21.805 million program decrease: Energy & Climate and a \$0.400 million decrease due to Program Management Administration (PMA) costs excess to need.					
FY 2025: \$37.799 million Program Decrease due to Unjustified Growth					
FY 2026: \$5.910 million increase due to programmatic adjustments within the RDT&E portfolio to improve resource efficiency. The FY 2026 request was reduced by \$0.133 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience				Project (Number/Name) 644860 / Operational Energy and Installation Resilience			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
644860: Operational Energy and Installation Resilience	0.000	23.270	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Transfers: In FY 2025, PE 0604860F, Operational Energy and Installation Resilience, Project 644860: Operational Energy and Installation Resilience efforts were transferred into Project 644861: Operational Energy and 644862: Installation Resilience to provide additional program visibility.

Terminations: In FY 2025, Project 644860: Operational Energy and Installation Resilience was terminated.

Distributions: Although FY 2025 reflects 25.395 million in funding for Installation Resiliency activities, 16.232 million was intended for and executed in 644861, Operational Energy activities. Future budget request submissions will reflect the corrected distributions.

A. Mission Description and Budget Item Justification

The Operational Energy and Installation Resilience program develops, matures, prototypes, demonstrates, and assesses technologies, software, and processes for decreasing operational energy risk and increasing installation resilience. The Air Force is the Department of Defense largest consumer of operational energy and requires resilient installations as power projection platforms to execute its missions. Technology transition, agile software development, and process integration efforts with a focus in these areas enable the Air Force to optimize operational energy use for maximum combat capability and mitigate multi-domain energy threats to installations. The objective of this program is to prioritize, validate performance in a relevant environment, and facilitate implementation of the validated solutions.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.688 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.790 million is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Installation Resilience	5.133	0.000	0.000
Description: The Installation Resilience program develops, matures, prototypes, demonstrates, and assesses technologies, software, and processes focused on increasing installation resilience. The Air Force requires resilient installations as power projection platforms to execute its missions. Technology transition, agile software development, and process integration efforts with a focus on resilience will enable the Air Force to mitigate multi-domain energy threats to installations. The objective of this program is to prioritize, validate, and facilitate implementation of validated solutions.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / <i>Operational Energy and Installation Resilience</i>	Project (Number/Name) 644860 / <i>Operational Energy and Installation Resilience</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
<i>FY 2025 Plans:</i> No funding requested in FY 2025 for Project 644860. Efforts transitioned and executed in Project 644862 Installation Resilience to provide additional visibility starting in FY2025. <i>FY 2026 Plans:</i> No funding requested in FY 2026 for Project 644860. Efforts transitioned and executed in project 644862 Installation Resilience to provide additional visibility starting in FY 2025. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> No funding requested in FY 2025 and FY 2026.			
<i>Title:</i> Operational Energy <i>Description:</i> Operational energy efforts seek to maximize combat capability by reducing overall DAF mission energy demand. Efforts in this program can include prototyping, demonstration, and transition of technologies, software, and processes that maximize combat capability by optimizing the following areas: platform energy use, mission planning and execution, propulsion sustainment, and energy logistics. Energy education, energy-informed wargaming, digital engineering, and modeling and simulation efforts typically support these areas. Specific examples of prototype and demonstration projects that optimize energy use and decrease energy intensity include legacy aircraft drag reduction technologies, alternate-fuel propulsion systems, ultra-efficient airframe designs, mission scheduling software, air-asset allocation tools, cargo load planning tools, and turbine engine sustainment enhancements for increased fuel efficiency. Operational Energy projects in these technology and process areas are viewed through an "energy lens," specifically geared toward cost-effectively optimizing energy use to maximize combat capability. Ideally, as the Air Force progresses toward an energy-aware culture, all acquisition efforts will incorporate this tenet from the beginning of, and throughout, the acquisition life cycle. This program aims to advance such a culture through successful project execution. <i>FY 2025 Plans:</i> No funding requested in FY 2025 Project 644860. Efforts transitioned and executed in Project 644861: Operational Energy to provide additional visibility starting in FY 2025. <i>FY 2026 Plans:</i> No funding requested in FY 2026 for Project 644860. Efforts transitioned and executed in Project 644861: Operational Energy to provide additional visibility starting in FY 2025. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i>		18.137	0.000
			0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience	Project (Number/Name) 644860 / Operational Energy and Installation Resilience		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
No funding requested in FY 2025 and FY 2026.				
Accomplishments/Planned Programs Subtotals		23.270	0.000	0.000
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
The efforts within this program employ multiple different acquisition strategies to include leveraging existing Federal Acquisition Regulatory-based contracts and Other Transactional Authority (OTA) agreements, as appropriate.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience				Project (Number/Name) 644860 / Operational Energy and Installation Resilience					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Mission Planning and Scheduling Optimization	Various	Various : Various	-	6.222	May 2024	-		-		-		-	-	-	-
Mobility Fleet Optimization	Various	Various : Various	-	3.897	Dec 2024	-		-		-		-	-	-	-
Aircraft Drag Reduction Technologies	Various	Various : Various	-	5.451	Sep 2024	-		-		-		-	-	-	-
Energy Supply Chain and Logistics	Various	Various : Various	-	2.567	Jul 2024	-		-		-		-	-	-	-
Flightline Modernization	Various	Various : Various	-	2.536	Sep 2024	-		-		-		-	-	-	-
Energy for Tactical Edge	Various	Various : Various	-	0.661	May 2025	-		-		-		-	-	-	-
Advanced Nuclear	Various	Various : Various	-	0.500	Jun 2025	-		-		-		-	-	-	-
Subtotal			-	21.834		-		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Operational Energy and Installation Resilience: Direct Cite Authority Civilian Pay	Allot	AFRL : TBD	-	0.688	Oct 2023	-		-		-		-	-	-	-
Subtotal			-	0.688		-		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Operational Energy and Installation Resilience: Program Management Administration Costs	Various	Various : Various	-	0.748	Jun 2025	-		-		-		-	-	-	-
Subtotal			-	0.748		-		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025						
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Ins tallation Resilience					Project (Number/Name) 644860 / Operational Energy and Installation Resilience							
					Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals					-	23.270		-		-		-		-	-	-	N/A

Remarks
Project 644860: Operational Energy & Installation Resilience efforts broken out into separate projects; Project 644861 - Operational Energy and Project 644862 - Installation Resiliency starting in FY 2025 to provide additional visibility.

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)		Project (Number/Name)	
3600 / 4		PE 0604860F / Operational Energy and Installation Resilience		644860 / Operational Energy and Installation Resilience	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Mobility Air Force Long Range Planning and Allocation Tools																												
All																												
Cargo Optimization - Improved Load Planning																												
All																												
Puckboard Scheduling Engine																												
All																												
Energy Supply Chain Risk Model																												
All																												
Augmented RealityAdversary Air																												
All																												
Aircraft Drag Reduction Technologies																												
All																												
Flightline Electrification Pilot																												
All																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / <i>Operational Energy and Installation Resilience</i>	Project (Number/Name) 644860 / <i>Operational Energy and Installation Resilience</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Mobility Air Force Long Range Planning and Allocation Tools</i>				
All	1	2024	3	2025
<i>Cargo Optimization - Improved Load Planning</i>				
All	1	2024	2	2025
<i>Puckboard Scheduling Engine</i>				
All	1	2024	1	2025
<i>Energy Supply Chain Risk Model</i>				
All	1	2024	4	2025
<i>Augmented RealityAdversary Air</i>				
All	1	2025	2	2026
<i>Aircraft Drag Reduction Technologies</i>				
All	3	2024	4	2025
<i>Flightline Electrification Pilot</i>				
All	4	2024	4	2025

Note

Project 644860: Operational Energy & Installation Resilience efforts broken out into separate projects; Project 644861 - Operational Energy and Project 644862 - Installation Resiliency starting in FY 2025 to provide additional visibility.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604860F / <i>Operational Energy and Installation Resilience</i>				Project (Number/Name) 644861 / <i>Operational Energy</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
644861: <i>Operational Energy</i>	0.000	0.000	0.000	31.409	0.000	31.409	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Transfers: In FY 2025, PE 0604860F, Operational Energy and Installation Resilience, Project 644860: Operational Energy and Installation Resilience efforts were transferred into Project 644861: Operational Energy and 644862: Installation Resilience to provide additional program visibility.

Terminations: In FY 2025, Project 644860: Operational Energy and Installation Resilience was terminated.

Distributions: Although FY 2025 reflects 25.395 million in funding for Installation Resiliency activities, 16.232 million was intended for and executed in 644861, Operational Energy activities. Future budget request submissions will reflect the corrected distributions.

A. Mission Description and Budget Item Justification

The Operational Energy project develops, matures, prototypes, and demonstrates technologies, software, and processes focused on optimizing energy usage to maximize combat capability. Activities include mission planning and scheduling optimization, mobility fleet optimization, aircraft drag reduction technologies, and energy supply chain and logistics efforts. As DOD's largest consumer of operational energy, these energy-focused efforts facilitate implementation of validated solutions that increase weapon system and platform capabilities (range, endurance, number of sorties refueled, etc.) and mitigate supply chain risk for DoD's largest consumer of operational energy, the Department of the Air Force.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.688 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.790 million is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Operational Energy	0.000	0.000	31.409
Description: Operational energy efforts seek to maximize combat capability by reducing overall DAF mission energy demand. Efforts in this program include, but not limited to prototyping, demonstration, transition of technologies, software, and processes which optimize platform energy use, mission planning and execution, propulsion sustainment, and energy logistics. Energy education, energy-informed wargaming, digital engineering, and modeling and simulation efforts also contribute to optimization in these areas as well. Specific examples of prototype and demonstration projects that optimize energy use and decrease energy			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / <i>Operational Energy and Installation Resilience</i>	Project (Number/Name) 644861 / <i>Operational Energy</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
intensity include route planning, cargo optimization, aircraft drag reduction technologies, energy supply chain and logistics optimization, and mobility fleet optimization efforts. While some of the operational energy efforts may appear similar to efforts found in other program elements, the differentiator is the "energy lens" focus on cost-effectively optimizing energy use to maximize combat capability. All acquisition efforts will incorporate this tenet from the beginning of, and throughout, the acquisition life cycle. <i>FY 2025 Plans:</i> - Software development focused on concurrently increasing aircraft availability, optimizing mobility aircraft allocation, optimizing aircrew scheduling, and optimizing cargo load planning projects that will be enhanced by additional effort in combat air forces training scheduling, advanced data analytics systems for strategic airlift assets, air refueling optimization, aerial refueling aircraft availability, and mobile applications to support command and control of mobility aircraft. - Additional efforts include augmented reality training tools, aircraft drag reduction technology prototyping and demonstrations, and advanced engine sustainment techniques. - These efforts expand the readiness impacts of current efforts and integrate energy logistics in both training and operations. <i>FY 2026 Plans:</i> - Continue software development focused on concurrently increasing aircraft availability, optimizing mobility aircraft allocation, optimizing aircrew scheduling, and optimizing cargo load planning projects that will be enhanced by additional effort in combat air forces training scheduling, advanced data analytics systems for strategic airlift assets, air refueling optimization, aerial refueling aircraft availability, and mobile applications to support command and control of mobility aircraft. - Includes aircraft drag reduction technology prototyping and demonstrations and advanced engine sustainment technologies to improve effectiveness and readiness. - Expands the readiness impacts of current efforts and integrate energy logistics in both training and operations. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 increased by \$31.409 million compared to FY 2025 due to aggregation of \$12.000 million legacy aircraft drag reduction funding from 63211F, Aerospace Tech Dev/Demo into this Program Element, resuming mobility fleet optimization and aircraft drag reduction activities deferred in FY 2025, and realignment of activities executed under 644862, Installation Resiliency in FY 2025.			
Accomplishments/Planned Programs Subtotals		0.000	0.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience	Project (Number/Name) 644861 / Operational Energy

D. Acquisition Strategy

The efforts within this program employ multiple different acquisition strategies to include leveraging existing Federal Acquisition Regulatory-based contracts and Other Transactional Authority (OTA) agreements, as appropriate.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604860F / <i>Operational Energy and Installation Resilience</i>						Project (Number/Name) 644861 / <i>Operational Energy</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Operational Energy: Mission Planning and Scheduling Optimization	Various	Various : Various	-	-		-		1.910	Nov 2025	-		1.910	-	-	-
Operational Energy: Mobility Fleet Optimization	Various	Various : Various	-	-		-		8.000	Jan 2026	-		8.000	-	-	-
Operational Energy: Aircraft Drag Reduction Technologies	Various	Various : Various	-	-		-		16.457	Nov 2025	-		16.457	-	-	-
Operational Energy: Energy Supply Chain and Logistics	Various	Various : Various	-	-		-		4.000	Jan 2026	-		4.000	-	-	-
Subtotal			-	-		-		30.367		-		30.367	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Operational Energy: Direct Cite Authority Civilian Pay	Allot	AFRL : TBD	-	-		-		0.445	Oct 2025	-		0.445	-	-	-
Subtotal			-	-		-		0.445		-		0.445	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Operational Energy: Program Management Administration Costs	Various	Not specified. : TBD	-	-		-		0.597	Jun 2026	-		0.597	-	-	-
Subtotal			-	-		-		0.597		-		0.597	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Ins tallation Resilience				Project (Number/Name) 644861 / Operational Energy				
	Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		31.409		-		31.409	-	-	N/A

Remarks

FY 2024 Operational Energy activities were included with Installation Resilience activities in the single project 644860, Operational Energy and Installation Resilience efforts. In FY 2025, the activities were transferred into separate projects to provide additional program visibility - Project 644861, Operational Energy and 644862, Installation Resilience.

FY 2025 Operational Energy activities are shown under 644862, Installation Resiliency for this budget request submission due to an administrative error that resulted in all \$25.395 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects as intended. Discovery of the error occurred after the deadline for corrections had passed necessitating the shift between projects for FY 2025. Future budget request submissions will reflect the corrected distributions.

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Ins tallation Resilience						Project (Number/Name) 644861 / Operational Energy			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Mission Planning and Scheduling Optimization																												
All																												
Mobility Fleet Optimization																												
All																												
Energy Supply Chain and Logistics																												
All																												
Aircraft Drag Reduction Technologies																												
All																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience	Project (Number/Name) 644861 / Operational Energy	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Mission Planning and Scheduling Optimization				
All	1	2025	4	2030
Mobility Fleet Optimization				
All	2	2025	4	2030
Energy Supply Chain and Logistics				
All	2	2025	4	2030
Aircraft Drag Reduction Technologies				
All	1	2025	4	2030

Note
FY 2025 Operational Energy activities are shown under 644862, Installation Resiliency for this budget request submission due to an administrative error that resulted in all \$25.395 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects as intended. Discovery of the error occurred after the deadline for corrections had passed necessitating the shift between projects for FY 2025. Future budget request submission will reflect the corrected distributions.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience				Project (Number/Name) 644862 / Installation Resiliency			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
644862: Installation Resiliency	0.000	0.000	25.395	18.051	0.000	18.051	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
Transfers: In FY 2025, PE 0604860F, Operational Energy and Installation Resilience, Project 644860: Operational Energy and Installation Resilience efforts were transferred into Project 644861: Operational Energy and 644862: Installation Resilience to provide additional program visibility.												
Terminations: In FY 2025, Project 644860: Operational Energy and Installation Resilience was terminated.												
Distributions: Although FY 2025 reflects \$25.395 million in funding for Installation Resiliency activities, \$16.232 million was intended for and executed in 644861, Operational Energy activities. Future budget request submissions will reflect the corrected distributions.												
A. Mission Description and Budget Item Justification												
Installation Resiliency projects develop, mature, prototype, and demonstrate technologies, software, and processes focused on increasing installation energy resilience to ensure energy availability and reliability sufficient to provide for mission assurance and readiness. Supporting infrastructure is a critical and integral component of our weapon systems, and joint operations rely on connectivity across the Department of the Air Force enterprise. The Department of the Air Force requires resilient infrastructure and installations to execute its missions. Activity areas include Advanced Nuclear, Mission Resilience Digital Transformation, Resilient Energy technology, Flightline Modernization, and Energy for the Tactical Edge.												
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.688 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.790 million is forecasted for civilian pay expenses in this program element.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Installation Resilience									0.000	25.395	18.051	
Description: Improve installation resilience through prototyping, integration, and demonstration of energy technologies. The technologies will be assessed in an operational environment.												
FY 2025 Plans:												
- Continue to prototype, integrate, demonstrate, and assess installation energy and resilience technologies and methodologies.												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / <i>Operational Energy and Installation Resilience</i>	Project (Number/Name) 644862 / <i>Installation Resiliency</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
- Additional efforts include mission resilience digital transformation, resilient energy technology solutions, flightline modernization efforts, and means of securing energy at the tactical edge. - These efforts expand the installation resilience impacts of current efforts and integrate energy assurance and logistics into mission readiness. <i>FY 2026 Plans:</i> - Continue to prototype, integrate, demonstrate, and assess installation energy and resilience technologies and methodologies. - Additional efforts include mission resilience digital transformation, resilient energy technology solutions, flightline modernization efforts, and means of securing energy at the tactical edge. - These efforts expand the installation resilience impacts of current efforts and integrate energy assurance and logistics into mission readiness. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 decreased by \$7.344 million compared to FY 2025 due to realignment of activities executed in this BPAC in FY 2025 to 644861, Operational Energy and associated increases with resuming Advanced Nuclear, Mission Resilience Digital Transformation, Resilient Energy Technologies and Energy at the Tactical Edge activities deferred in FY 2025 to align with available funding.			
Accomplishments/Planned Programs Subtotals		0.000	25.395
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The efforts within this program employ multiple different acquisition strategies to include leveraging existing Federal Acquisition Regulatory-based contracts and Other Transactional Authority (OTA) agreements, as appropriate.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Ins tallation Resilience				Project (Number/Name) 644862 / Installation Resiliency					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Installation Resilience: Mission Resilience Digital Transformation	Various	Various : Various	-	-		1.804	Jul 2025	2.301	Oct 2025	-		2.301	-	-	-
Installation Resilience: Resilient Energy Technology	Various	Various : Various	-	-		4.434	Sep 2025	7.500	Feb 2026	-		7.500	-	-	-
Installation Resilience: Flightline Modernization	Various	Various : Various	-	-		0.000	Feb 2025	0.000	Oct 2025	-		0.000	-	-	-
Installation Resilience: Energy for Tactical Edge	Various	Various : Various	-	-		0.225	Jul 2025	1.900	Jan 2026	-		1.900	-	-	-
Installation Resilience: Advanced Nuclear	Various	Various : Various	-	-		2.000	Jul 2025	5.000	Nov 2025	-		5.000	-	-	-
Operational Energy: Mission Planning and Scheduling Optimization	Various	Various : Various	-	-		3.963	Jul 2025	-		-		-	-	-	-
Operational Energy: Aircraft Drag Reduction Technology	Various	Various : Various	-	-		11.078	Sep 2025	-		-		-	-	-	-
Operational Energy: Energy Supply Chain and Logistics	Various	Various : Various	-	-		0.228	Jun 2025	-		-		-	-	-	-
Subtotal			-	-		23.732		16.701		-		16.701	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Installation Resilience: Direct Cite Authority Civilian Pay	Allot	AFRL : TBD	-	-		0.395	Oct 2024	0.445	Oct 2025	-		0.445	-	-	-
Operational Energy: Direct Cite Authority Civilian Pay	Allot	AFRL : TBD	-	-		0.395	Oct 2024	-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force													Date: June 2025		
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience				Project (Number/Name) 644862 / Installation Resiliency					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Subtotal			-	-		0.790		0.445		-		0.445	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Installation Resilience: Program Management Administration	Various	Various : Various	-	-		0.305	Jun 2025	0.905	Jun 2026	-		0.905	-	-	-
Operational Energy: Program Management Administration	Various	Various : Various	-	-		0.568	Jun 2025	-		-		-	-	-	-
Subtotal			-	-		0.873		0.905		-		0.905	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		25.395		18.051		-		18.051	-	-	N/A
Remarks															
FY 2024 Installation Resiliency activities were included with Operational Energy activities in the single project 644860, Operational Energy and Installation Resilience efforts. In FY 2025, the activities were transferred into separate projects to provide additional program visibility - Project 644861, Operational Energy and 644862, Installation Resilience.															
FY 2025 Operational Energy activities are being shown here for this budget request submission due to an administrative error that resulted in all \$25.395 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects as intended (\$16.232 million for Operational Energy and \$9.163 million for Installation Resiliency). Discovery of the error occurred after the deadline for corrections had passed necessitating the shift between projects for FY 2025. Future budget request submission will reflect the corrected distributions.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience						Project (Number/Name) 644862 / Installation Resiliency			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Energy for the Tactical Edge																												
All																												
Resilient Energy Technology																												
All																												
Mission Resilience Digital Transformation																												
All																												
Flightline and Tactical Equipment Modernization																												
All																												
Advanced Nuclear																												
All																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604860F / <i>Operational Energy and Installation Resilience</i>	Project (Number/Name) 644862 / <i>Installation Resiliency</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Energy for the Tactical Edge</i>				
All	2	2025	4	2030
<i>Resilient Energy Technology</i>				
All	3	2025	4	2030
<i>Mission Resilience Digital Transformation</i>				
All	1	2025	4	2028
<i>Flightline and Tactical Equipment Modernization</i>				
All	2	2025	4	2030
<i>Advanced Nuclear</i>				
All	3	2025	4	2030

Note

* Indicates an FY 2025 Operational Energy activity. Operational Energy activities are being shown here for this budget request submission due to an administrative error that resulted in all \$25.395 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects as intended. Discovery of the error occurred after the deadline for corrections had passed necessitating the shift between projects for FY 2025. Future budget request submission will reflect the corrected distributions.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0605057F I Next Generation Air-refueling System							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	9.325	7.014	12.960	0.000	12.960	-	-	-	-	-	-
640010: Next Generation Air-refueling System (NGAS)	0.000	9.325	7.014	12.960	0.000	12.960	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Developing future tanker capability and recapitalizing the Air Force's aging tanker fleet is a top priority for the Department of the Air Force. In FY 2024, the Department of the Air Force amended its previous Tanker recapitalization approaches (KC-X, KC-Y, KC-Z) in favor of more agile methods, prioritizing and accelerating the right capabilities to deliver fuel to the fight. This funding will develop more advanced capabilities to allow tankers to operate in a more contested environment. The FY 2024 Analysis of Alternatives (AoA) provided conclusions that tankers will need to be more survivable to operate in a contested environment. Means to achieve this goal include but are not limited to examining the effectiveness and affordability of more resilient, connected, and survivable tanker systems.

Future tanker fleet survivability capabilities are a top priority for the Department of the Air Force to counter pacing threats and enable B-21, CCAs, F-47, survivable tankers, and Space assets in contested environments.

In FY 2026, this effort will continue AoA excursions, planning for transition of new technologies for resilient connectivity and survivability (mission systems), and further market research. The Future Tankers System Program Office will pursue cost versus capability analysis, updated tanker models and high-fidelity modeling and simulation to further exercise joint warfighting concepts and plans. This work will allow for concept refinement and support to requirements development to include potential refined attributes.

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

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$0.676 million was expended for civilian pay expenses in this program element, and in FY 2025 \$1.18 million is forecast for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0605057F I Next Generation Air-refueling System			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	0.000	7.014	0.000	0.000	0.000
Current President's Budget	9.325	7.014	12.960	0.000	12.960
Total Adjustments	9.325	0.000	12.960	0.000	12.960
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	7.928	0.000			
• Reprogrammings	1.554	0.000			
• SBIR/STTR Transfer	-0.157	0.000			
• Other Adjustments	0.000	0.000	12.960	0.000	12.960
Change Summary Explanation					
FY 2024 funding request increased by \$9.325 due a Congressional Directed Transfer requested by Air Force for \$7.928 million and Reprogramming action for \$1.554 million to expedite Mission System integration development for tanker aircraft and funding for Small Business Innovation Research (SBIR) program.					
FY 2026 funding request increased by \$12.960 million to support market research and concept refinement for design, development, prototyping, integration of resilient connectivity and survivability technologies onto the tanker fleet.					
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Studies and Analysis	0.000	0.100	2.500	0.000	2.500
Description: Studies and Analysis provide excursions and concept refinement derived from AoA analysis. Activities will help determine the efficacy of capabilities through trade analysis, development, engineering, prototyping, and testing to include but not be limited to: future tanker model development planning; implementation and access; Modeling and Simulation; and cost vs. capability analysis market research.					
FY 2025 Plans: Activities for studies and analyses to support concept refinement and market research.					
FY 2026 Base Plans: Studies and Analysis activities as determined by the AoA which include but are not limited to: continued market research; development planning; Modeling and Simulation, Studies, and Analysis; excursions based on completed AoA data; improved modeling environments and tools to account for tanker survivability concepts,					

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0605057F I Next Generation Air-refueling System				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
iterative design, engineering and integration studies for modular and integrated mission systems onto multiple legacy and future tanker development efforts. FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to ramp up of study and analysis activities to include concept refinement, integration studies, development efforts, engineering and prototyping and testing on tanker platforms.						
Title: NGAS Direct Mission Support Description: Future Tanker Program Office support will continue developmental planning activities, market research, mission support, as well as acquisition planning and documentation activities. FY 2025 Plans: Continue market research, studies and analyses; update tanker models; run high fidelity modeling and simulation; continue acquisition planning, pre-milestone activities, requirements development, acquisition planning documents. FY 2026 Base Plans: Continued market research, studies and analyses; update tanker models; run high fidelity modeling and simulation; continue acquisition planning, concept refinement, market research, pre-milestone activities, requirements development, acquisition strategy refinement and future tanker development efforts. FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to ramp up of program office activities to include increased concept refinement planning, pre-milestone activities and requirements development.		9.325	6.914	10.460	0.000	10.460
Accomplishments/Planned Programs Subtotals		9.325	7.014	12.960	0.000	12.960
D. Other Program Funding Summary (\$ in Millions) N/A						
Remarks						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0605057F I Next Generation Air-refueling System	
E. Acquisition Strategy Alternatives for more survivable tanking capability could potentially be addressed through more resilient connectivity and on-board and off-board self-protection. Acquisition strategies for any or all of these options would be directly related to requirements that will be refined through the FY 2026 activities including, but not limited to, market research and concept refinement as well as high fidelity modeling and simulation. Any future contracts would consider a phased contracting approach as part of the acquisition strategy to facilitate maximum competition for the max amount of time feasible based on requirements, schedule and funding.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0605057F / Next Generation Air-refueling System						Project (Number/Name) 640010 / Next Generation Air-refueling System (NGAS)			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Studies and Analysis	Various	Not specified. : TBD	-	-		0.100	Jun 2025	2.500	Jan 2026	-		2.500	-	-	-
Subtotal			-	-		0.100		2.500		-		2.500	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Cite Authority for Civ Pay	RO	AFLCMC : WPAFB, OH	-	0.676	Oct 2023	1.180	Oct 2024	2.800	Oct 2025	-		2.800	-	-	-
Direct Mission Support	Various	AFLCMC : WPAFB, OH	-	8.649	Oct 2023	5.734	Oct 2024	7.660	Oct 2025	-		7.660	-	-	-
Subtotal			-	9.325		6.914		10.460		-		10.460	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.325		7.014		12.960		-		12.960	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0605057F / Next Generation Air-refueling System						Project (Number/Name) 640010 / Next Generation Air-refueling System (NGAS)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
NGAS																												
Analysis of Alternatives																												
Concept Refinement																												
Studies and Analysis																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0605057F / Next Generation Air-refueling System	Project (Number/Name) 640010 / Next Generation Air-refueling System (NGAS)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NGAS				
Analysis of Alternatives	1	2024	1	2025
Concept Refinement	1	2025	4	2026
Studies and Analysis	2	2025	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0605164F <i>I Air Refueling Capability Modernization</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	15.201	13.661	0.000	0.000	0.000	-	-	-	-	-	-
645164: <i>Continued Tanker Recapitalization RDT&E</i>	0.000	15.201	13.661	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2026, PE 0605164F, Air Refueling Capability Modernization, Project 645164F, Continued Tanker Recapitalization RDT&E efforts transferred to PE 0401221F, KC-46A Tanker Squadrons, Project 650013, Tanker Production Extension to ensure greater transparency.

A. Mission Description and Budget Item Justification

Accelerating future tanker capability and recapitalizing the Air Force's aging tanker fleet is a top priority for the Department of the Air Force. In FY 2024, the Department of the Air Force broke from its previous recapitalization approaches (KC-X, KC-Y, KC-Z) in favor of more agile methods, prioritizing and accelerating the right capabilities to deliver fuel to the fight. This new approach continues Tanker Recapitalization (PE 0605164F) efforts between KC-46A (PE 040221F) and the Next Generation Air-refueling System (NGAS) (PE 0605057F). The Department of the Air Force (DAF) will use the Tanker Recapitalization program to replace up to 15 KC-135s legacy tankers per year as they retire. The total number of Tanker Recap aircraft procured will be influenced by the FY 2024 NGAS Analysis of Alternatives and dependent on NGAS's first delivery.

The Tanker Recapitalization program will deliver an air-refuelable, commercial derivative, limited development tanker that provides fuel to U.S. and coalition aircraft receivers via a boom or drogue system that can operate in day/night and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. and coalition forces. The Tanker Recapitalization program will have communication, navigation, and surveillance equipment to support worldwide operations and refueling competences in chemical, biological and hostile threat environments through self-defense/protection (both active and passive) capabilities to include the necessary battlespace awareness to mitigate threats.

The dynamics and mission urgency of the post-production (post DD-250) environment require the program to maintain a flexible and responsive posture to support a broad range of mission support needs. Tanker Recapitalization program will identify, design, develop, integrate, verify, certify, produce, install, field, and sustain a comprehensive range of non-recurring and recurring post-production, air vehicle enhancements and field support needs to include but not limited to programmed Mobility Air Force (MAF) requirements, Combatant Commander Joint or Urgent Operational Needs (JUON/UON), non-programmed Federal Aviation Administration (FAA) directives, requirements identified and supported by HHQ Enterprise Capability Collaboration Teams (i.e., High Value Airborne Asset [HVAA], Air Superiority 2030, and Multi-Domain Command and Control [MDC2]), or correction of field deficiencies.

Tanker Recapitalization program will develop, field, and sustain warfighter capabilities to meet evolving threats and mission support requirements through Block or discrete modification or modernization programs depending on mission urgency, available funding, and programmatic and technical risks. Post-production requirements

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0605164F I Air Refueling Capability Modernization				
may include but not limited to avionics and structural systems/architecture and subsystem updates, general mission equipment updates and procurement, general sustainment support, studies and analyses, future tanker requirements simulation and training, and correction of field deficiencies.						
Project 645164, Continued Tanker Recapitalization RDT&E will also support Program Support Costs (PSC) activities to include but not limited to market research, acquisition planning, pre-milestone activities, RFP development, test planning, mission planning capability development, future tanker development, and various studies and analyses.						
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.						
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$5.589 million was expended for civilian pay expenses in this program element, in FY 2025 \$9.575 million is forecast for civilian pay expenses in this program element.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		19.400	13.661	188.577	0.000	188.577
Current President's Budget		15.201	13.661	0.000	0.000	0.000
Total Adjustments		-4.199	0.000	-188.577	0.000	-188.577
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-4.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-0.199	0.000			
• Other Adjustments		0.000	0.000	-188.577	0.000	-188.577
Change Summary Explanation						
FY 2024 funding was reduced by \$4.199 million due to Congressional Directed Reduction of \$4.000 million for unjustified support cost growth and Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs.						
FY 2026 funding request was reduced by \$188.577 million due to a transfer of effort from Program Element (PE) 0605164F, Air Refueling Capabilities Modernization, Project 654164 Continued Tanker Recapitalization RDT&E to PE 0401221F, KC-46 A Tanker Squadrons, Project 650013 Tanker Production Extension.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025			
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>			R-1 Program Element (Number/Name) PE 0605164F <i>I Air Refueling Capability Modernization</i>				
C. Accomplishments/Planned Programs (\$ in Millions)							
			FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Support Description: Initial market research and program level Business Case Analysis to include Early Strategy and Issue Session forums with HQ AF and program stakeholders and initial Acquisition Strategy Panel. FY 2025 Plans: Continue acquisition planning, acquisition strategy refinement and other future tanker development efforts. FY 2026 Base Plans: N/A FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to a transfer of effort to Program Element 0401221F, KC-46A Tanker Squadrons, Project 650013, Tanker Production Extension.			15.201	13.661	0.000	0.000	0.000
Accomplishments/Planned Programs Subtotals			15.201	13.661	0.000	0.000	0.000
D. Other Program Funding Summary (\$ in Millions)							
N/A							
Remarks							
E. Acquisition Strategy							
N/A							

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0605164F / Air Refueling Capability Modernization						Project (Number/Name) 645164 / Continued Tanker Recapitalization RDT&E			
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Tanker Recapitalization Direct Cite Authority for Civ Pay	RO	Not specified. : TBD	-	5.589	Oct 2023	9.575	Oct 2024	-		-		-	-	-	-
Tanker Recapitalization Direct Mission Support	Various	Not specified. : TBD	-	9.612	Oct 2023	4.086	Oct 2024	-		-		-	-	-	-
Subtotal			-	15.201		13.661		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	15.201		13.661		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0605164F / Air Refueling Capability Modernization					645164 / Continued Tanker Recapitalization RDT&E			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Tanker Recap Development																												
BCA/Market Research																												
Concept Refinement																												
Technology Maturation and Risk Reduction																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0605164F / Air Refueling Capability Modernization	Project (Number/Name) 645164 / Continued Tanker Recapitalization RDT&E

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Tanker Recap Development				
BCA/Market Research	1	2024	3	2024
Concept Refinement	1	2025	4	2025
Technology Maturation and Risk Reduction	3	2025	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0606004F I Commercial Capability Integration and Transition							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	1.097	0.000	1.097	-	-	-	-	-	-
646020: Commercial Capabilities Integration & Transition (CCIT)	0.000	0.000	0.000	1.097	0.000	1.097	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0606004F, project 646020, Commercial Capabilities Integration & Transition, is a new start.

A. Mission Description and Budget Item Justification

Commercial Capabilities Integration & Transition uses the Small Business Innovation Research process to discover, prototype, and rapidly field commercial solutions to solve combatant commander and warfighter requirements. Commercial Capabilities Integration & Transition partners with OSD in rapid prototyping and experimentation activities. Additionally, Commercial Capabilities Integration & Transition partners with various agencies to include AFRL, DIU, OSD R&E, Rapid Defense Experimentation Reserve, and Defense Innovation Accelerator, FFRDCs, NNSA and others to identify critical science and technology capabilities. Furthermore, Commercial Capabilities Integration & Transition leverages the U.S.'s small business community, accelerating the Department's acquisition process, to rapidly prototype and demonstrate these critical science and technology capabilities for integration into AF systems. This energizes the Nation's small business community and increases the industrial base to meet the emerging challenges of incorporating revolutionary technologies like AI/ML, quantum, cyber, advanced communications/networks, advanced propulsion, directed energy, training systems, etc.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	1.097	0.000	1.097
Total Adjustments	0.000	0.000	1.097	0.000	1.097
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	1.097	0.000	1.097

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0606004F I Commercial Capability Integration and Transition		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Commercial Capabilities Integration & Transition		-	-	1.097
Description: Commercial Capabilities Integration & Transition				
FY 2026 Plans: Commercial Capabilities Integration & Transition: Performs Commercial Technology Research & Development Adaptation and Acceleration into Air Force Nuclear Enterprise and Air Force Global Strike Command Mission Areas				
FY 2025 to FY 2026 Increase/Decrease Statement: This Program is a New Start				
Accomplishments/Planned Programs Subtotals		-	-	1.097
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy TBD				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0606004F / Commercial Capability Integration and Transition						Project (Number/Name) 646020 / Commercial Capabilities Integration & Transition (CCIT)			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Technology Development & Prototyping	C/FP	Not specified. : TBD	-	-		-		0.600	Mar 2026	-		0.600	-	-	-
Subtotal			-	-		-		0.600		-		0.600	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Services	C/FP	Not specified. : TBD	-	-		-		0.497	Mar 2026	-		0.497	-	-	-
Subtotal			-	-		-		0.497		-		0.497	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		1.097		-		1.097	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025							
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0606004F / Commercial Capability Integration and Transition								Project (Number/Name) 646020 / Commercial Capabilities Integration & Transition (CCIT)							

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0606004F / Commercial Capability Inte gration and Transition	Project (Number/Name) 646020 / Commercial Capabilities Integration & Transition (CCIT)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Commercial Capabilities Integration & Transition				
Evaluate integrated technologies and representative modes or prototype systems	1	2026	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0606005F / <i>Digital Transformation Office</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	57.511	9.800	15.997	0.000	15.997	-	-	-	-	-	-
643316: <i>Digital Transformation Office</i>	0.000	57.511	9.800	15.997	0.000	15.997	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program encompasses the acquisition and development of common digital tools, software, and training to expedite the delivery of pertinent technologies, capabilities, and weapons throughout the enterprise. This program ensures the swift and cost-effective deployment of software tools to acquisition programs by developing common, enterprise-level, cloud-hosted software tool environments; this will equip the acquisition enterprise with Model-Based Systems Engineering, analytics, requirements management, and product life cycle management tools that will accelerate the delivery of war fighting capabilities. The program's objective is to develop and deploy enterprise-wide approaches for standardizing and scaling digital tool capabilities, resulting in reduced program delivery times. This holistic approach enables unprecedented collaboration with industry, lowers contract deliverable costs through government-approved data architectures and model delivery, and enhances foundational capability across the DAF by providing access to cloud-hosted tools to empower the acquisition workforce.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	0.000	9.800	14.790	0.000	14.790
Current President's Budget	57.511	9.800	15.997	0.000	15.997
Total Adjustments	57.511	0.000	1.207	0.000	1.207
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	59.700	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-2.189	0.000			
• Other Adjustments	0.000	0.000	1.207	0.000	1.207

Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2024	FY 2025
Project: 643316: <i>Digital Transformation Office</i>		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025				
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0606005F I Digital Transformation Office					
Congressional Add Details (\$ in Millions, and Includes General Reductions)			FY 2024	FY 2025			
Congressional Add: Program increase - Digital Engineering Enabled Workforce Development			6.743	0.000			
Congressional Add: Program Increase - Digital Transformation Hub			5.780	0.000			
Congressional Add: Program increase - Digital Transformation Office			9.344	0.000			
Congressional Add: Program increase - Digital Transformation Digital Technology Maturation and Adoption			2.890	0.000			
Congressional Add: Program Increase - Document generation platform			11.079	0.000			
Congressional Add: Program Increase - Digital first ecosystem			8.670	0.000			
Congressional Add: Program Increase - File rights management			2.890	0.000			
Congressional Add: Program Increase - Academic Cybersecurity Center support			10.115	0.000			
Congressional Add Subtotals for Project: 643316			57.511	0.000			
Congressional Add Totals for all Projects			57.511	0.000			
Change Summary Explanation							
FY 2026 increased compared to FY 2025 by \$1.207 million due to an increase of 1,000 new users with access to new commercial software tools that will provide enhanced collaboration and data driven decision making commercial software tools							
C. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: LaunchPad			0.000	9.800	15.997	0.000	15.997
Description: LaunchPad focuses on building and expanding access to commercial software tool in a secure web-based environment at multiple classification levels to enable collaboration and accelerate design and delivery of warfighting systems. This provides access to the most foundational commercial software tools across the Acquisition Community. This enterprise approach will enable DAF to transition from program-unique investments to a scalable digital environment.							
FY 2025 Plans: Add new commercial software tools and capabilities into LaunchPad. Develop the requirements and start initial steps for the Re-architecture effort for building LaunchPad 2.0.							
FY 2026 Base Plans: LaunchPad 2.0 - which will provide access to commercial software tools at multiple classification levels. The system will provide role-based views and toolsets to enhance user experience, provides seamless integration							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0606005F I Digital Transformation Office				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
with existing DAF systems (e.g.LaunchPad 2.0 to AF-Program Lifecycle Management, LaunchPad 2.0 to High Performance Computing Modernization Program), and provides a modular, scalable architecture capable of supporting up to 80,000 users by 2029.						
Cyber Testing, integration testing - Penetration testing, Authorization To Operate (ATO) package development, User experience design and testing, user acceptance testing.						
FY 2026 OOC Plans: Not applicable.						
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increased compared to FY 2025 by \$6.197M for Launchpad is due to planned purchase of cloud compute and store.						
Accomplishments/Planned Programs Subtotals		0.000	9.800	15.997	0.000	15.997
		FY 2024	FY 2025			
Congressional Add: Program increase - Digital Engineering Enabled Workforce Development		6.743	0.000			
FY 2024 Accomplishments: Conducted Congressionally directed efforts.						
FY 2025 Plans: Not applicable.						
Congressional Add: Program Increase - Digital Transformation Hub		5.780	0.000			
FY 2024 Accomplishments: This Congressional Add was rescinded on Full-Yr CR bill						
FY 2025 Plans: Not applicable.						
Congressional Add: Program increase - Digital Transformation Office		9.344	0.000			
FY 2024 Accomplishments: Conducted Congressionally directed efforts.						
FY 2025 Plans: Not applicable.						
Congressional Add: Program increase - Digital Transformation Digital Technology Maturation and Adoption		2.890	0.000			
FY 2024 Accomplishments: Conducted Congressionally directed efforts.						
FY 2025 Plans: Not applicable.						
Congressional Add: Program Increase - Document generation platform		11.079	0.000			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0606005F I Digital Transformation Office	
		FY 2024	FY 2025
FY 2024 Accomplishments: Conducted Congressionally directed efforts.			
FY 2025 Plans: Not applicable.			
Congressional Add: Program Increase - Digital first ecosystem		8.670	0.000
FY 2024 Accomplishments: Conducted Congressionally directed efforts.			
FY 2025 Plans: Not applicable.			
Congressional Add: Program Increase - File rights management		2.890	0.000
FY 2024 Accomplishments: Conducted Congressionally directed efforts.			
FY 2025 Plans: Not applicable.			
Congressional Add: Program Increase - Academic Cybersecurity Center support		10.115	0.000
FY 2024 Accomplishments: Conducted Congressionally directed efforts.			
FY 2025 Plans: Not applicable.			
Congressional Adds Subtotals		57.511	0.000
D. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
E. Acquisition Strategy			
N/A			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0606005F / Digital Transformation Office				Project (Number/Name) 643316 / Digital Transformation Office					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
1	C/CPFF	SAIC : Reston, VA	-	0.000		9.800	Mar 2025	15.997	Jan 2026	-		15.997	-	-	-
2	SS/FFP	Third Wave : Minneapolis, MN	-	6.743	Apr 2025	-		-		-		-	-	-	-
3	SS/FFP	TBD : TBD	-	5.780		-		-		-		-	-	-	-
4	SS/FFP	Kana Systems : Lincoln, NE	-	9.344	Feb 2025	-		-		-		-	-	-	-
5	SS/FFP	Expansia : Nashua, NH	-	2.890	Jan 2025	-		-		-		-	-	-	-
6	SS/FFP	Inkit : St. Paul, MN	-	11.079	Mar 2025	-		-		-		-	-	-	-
7	SS/FFP	Collaboration.ai : Minneapolis, MN	-	8.670	Mar 2025	-		-		-		-	-	-	-
8	SS/FFP	Inkit : St. Paul, NH	-	2.890	Feb 2025	-		-		-		-	-	-	-
9	SS/FFP	Metro State University : St. Paul, MN	-	10.115	May 2025	-		-		-		-	-	-	-
Subtotal			-	57.511		9.800		15.997		-		15.997	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	57.511		9.800		15.997		-		15.997	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)	
3600 / 4	PE 0606005F / Digital Transformation Office	643316 / Digital Transformation Office	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
LaunchPad																												
1																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0606005F / Digital Transformation Office	Project (Number/Name) 643316 / Digital Transformation Office	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
LaunchPad				
1	2	2025	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0207110F / F-47

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	2,346.905	2,424.208	0.000	0.000	0.000	-	-	-	-	-	-
646007: <i>Next Generation Air Dominance (NGAD) Platform</i>	0.000	1,954.695	2,424.208	0.000	0.000	0.000	-	-	-	-	-	-
647123: <i>Collaborative Combat Aircraft (CCA)</i>	0.000	392.210	0.000	0.000	0.000	0.000	-	-	-	-	-	-

Note

PE 0207110F was renamed from "Next Generation Air Dominance" to "F-47".

In FY 2025, Project 647123 "Collaborative Combat Aircraft (CCA)" was transferred to PE 0207147F, Project 640017 in order to align with Congressional intent to separate CCA from the F-47 PE.

A. Mission Description and Budget Item Justification

F-47 enables Air Superiority for the Joint Force in the most challenging operational environments. Key F-47 attributes include enhancements to survivability, lethality, persistence, crewed/uncrewed teaming and interoperability across a range of military operations. Program activities include the employment of digital acquisitions through the application of digital engineering, agile software development, open systems architectures and digital systems infrastructure as well as the design, build, and test of full weapon systems with supporting elements. Funding provides for operational concept exploration, technology studies, multi-domain integration assessments, operational and system architecture development, maturation/risk reduction, prototyping, and Engineering and Manufacturing Development (EMD) of F-47 and related technologies. These technologies include autonomy, weapon systems, mission systems, government referenced architectures for standards and interfaces, terrestrial systems, training, product support, integrated system concept development and demonstration, as well as activities for full weapon system design, build, test, and program management support. Program management support costs include, but are not limited to, contractor support services, civilian pay, supplies, and facility related expenses. F-47 technologies are available to other DoD systems based on emerging threats, AF priorities, and development capacity.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 24.850 million was expended for civilian pay expenses in this program element, and in FY 2025 26.584 million is forecast for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0207110F I F-47			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	2,326.128	3,306.355	3,684.211	0.000	3,684.211
Current President's Budget	2,346.905	2,424.208	0.000	0.000	0.000
Total Adjustments	20.777	-882.147	-3,684.211	0.000	-3,684.211
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-395.400			
• Congressional Rescissions	-0.020	0.000			
• Congressional Adds	100.000	0.000			
• Congressional Directed Transfers	0.000	-486.747			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-79.203	0.000			
• Other Adjustments	0.000	0.000	-3,684.211	0.000	-3,684.211
Change Summary Explanation					
In FY 2024, 100.000 million funding increase in Project 647123 due to a Congressional Add in Omnibus.					
In FY 2024, 79.223 million funding decrease in PE 0207110F due to SBIR Transfer.					
In FY 2025, 325.000 million funding decrease in Project 646007 due to a Congressional Reduction.					
In FY 2025, 70.400 million funding decrease in Project 647123 due to a Congressional Reduction.					
In FY 2025, 486.747 million in Project 647123 was transferred to PE 0207147F, Project 640017 to align with Congressional intent to separate CCA from the F-47 PE.					
In FY 2026, 494.896 million in Project 647123 was transferred to PE 0207147F, Project 640017 in order to align with Congressional intent to separate CCA from the F-47 PE.					
In FY 2026, 3189.315 million in Project 646007 was transferred from BA 4 to BA 5, PE 0207110F, Project 656009 due to the award of the F-47 Engineering and Manufacturing Development (EMD) contract.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0207110F / F-47				Project (Number/Name) 646007 / Next Generation Air Dominance (NGAD) Platform			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
646007: Next Generation Air Dominance (NGAD) Platform	0.000	1,954.695	2,424.208	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The F-47 program is influenced by the CSAF-approved Air Superiority Enterprise Capability Collaboration Team (ECCT) Flight Plan. The program matures technology and reduces risk through development, integration, and test activities. Key NGAD attributes include enhancements in survivability, lethality, persistence, and interoperability across a range of military operations. Program activities include the employment of digital acquisitions through the application of digital engineering, agile software development, open systems architectures and digital systems infrastructure as well as the design, build, and test of full weapon systems with supporting elements. Funding provides for operational concept exploration, technology studies, multi-domain integration assessments, operational and system architecture development, maturation/risk reduction, prototyping, and Engineering and Manufacturing Development (EMD) of F-47 and related technologies. These technologies include autonomy, weapon systems, mission systems, government referenced architectures for standards and interfaces, terrestrial systems, training, product support, integrated system concept development and demonstration, as well as activities for full weapon system design, build, test, and program management support. Program management support costs include, but are not limited to, contractor support services, civilian pay, supplies, and facility related expenses. F-47 technologies are available to other DoD systems based on emerging threats, AF priorities, and development capacity.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 24.850 million was expended for civilian pay expenses in this program element, and in FY 2025 26.584 million is forecast for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: 2030+ Air Dominance	1,954.695	2,424.208	0.000
Description: The 2030+ Air Dominance (AD) candidate concepts consist of operational analyses, threat studies, technology candidate assessments and prototyping to identify operational concepts and technologies that improve persistence, survivability, lethality, connectivity, interoperability and affordability in 2030 and beyond. These efforts will provide for contractors to conduct analyses, identify technology candidates and perform concept refinement. Studies are required to develop operational/system architectures to include family of systems and spectral dominance platforms. In addition, technical risk reduction activities will be performed to include development, integration, test and building demonstrative prototypes.			
The 2030+ AD working groups methodically assessed candidate concepts using USAF directives and guidance that informed the F-47 Analysis of Alternatives (AoA). Ongoing studies refine system concepts and operational/system architectures incorporating family of systems and spectral dominance platforms that may be required to inform and support strategic choices.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207110F / F-47	Project (Number/Name) 646007 / <i>Next Generation Air Dominance (NGAD) Platform</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
In addition, technical risk reduction studies utilizing preliminary data from AD concept development have informed strategic USAF experimentation and prototyping efforts. Finally, technical overviews were presented to the Air Force - Scientific Advisory Board (AF-SAB) and other senior leaders. <i>FY 2025 Plans:</i> F-47 achieved Milestone B and awarded an Engineering and Manufacturing Development contract. The program activities include the pursuit of open architecture solutions and the design, build, and test of components and full weapon systems. The F-47 program will continue to conduct analyses, identify technology candidates, perform concept refinements, and studies required to develop operational/system architectures to include family of systems and spectral dominance platforms. Technical risk reduction activities will continue while engineering and manufacturing development activities begin to ramp that will include development, integration, build, and test of F-47 aircraft. <i>FY 2026 Plans:</i> In FY 2025 Project 646007 "F-47" was transferred to PE 0207110F, Project 656009 for FY 2026 execution. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Project 646007 BA04 "F-47" was transferred to PE 0207110F, Project 656009 BA05			
Accomplishments/Planned Programs Subtotals		1,954.695	2,424.208
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The Next Generation Air Dominance acquisition strategy is based on a top-down, multi-domain capabilities development planning and oversight framework. Cross-functional teams will conduct analysis, demonstrations, and experiments to quantify the operational value of alternative concepts and technologies to provide solutions to current and future air superiority capability gaps. Additional details on the acquisition strategy cannot be provided at this classification level.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207110F / F-47				Project (Number/Name) 646007 / Next Generation Air Dominance (NGAD) Platform					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
F-47 Research/ Development Efforts	Various	Various : Various	-	1,838.884		2,313.391		0.000		-		0.000	-	-	-
Subtotal			-	1,838.884		2,313.391		0.000		-		0.000	-	-	N/A
Remarks															
Contractual specifics are not available at this level of security classification.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
F-47 Acquisition Support	Various	Various : Various	-	115.811		110.817		0.000		-		0.000	-	-	-
Subtotal			-	115.811		110.817		0.000		-		0.000	-	-	N/A
Remarks															
F-47 Acquisition Support includes but is not limited to A&AS, civilian pay, supplies, and facility related expenses.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1,954.695		2,424.208		0.000		-		0.000	-	-	N/A
Remarks															
Details of contract data are not shown because of the level of security classification.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0207110F / F-47									
										Project (Number/Name) 646007 / Next Generation Air Dominance (NGAD) Platform									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
F-47																												
Concept Exploration																												
Integration Studies																												
Technology Risk Reduction / Prototyping																												
Engineering and Manufacturing Development																												
FY25 Strategic Planning Choices Presented																												
FY26 Strategic Planning Choices Presented																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207110F / F-47	Project (Number/Name) 646007 / Next Generation Air Dominance (NGAD) Platform	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
F-47				
Concept Exploration	1	2024	4	2030
Integration Studies	1	2024	4	2030
Technology Risk Reduction / Prototyping	1	2024	3	2025
Engineering and Manufacturing Development	2	2025	4	2030
FY25 Strategic Planning Choices Presented	1	2024	1	2024
FY26 Strategic Planning Choices Presented	1	2025	1	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0207110F / F-47				Project (Number/Name) 647123 / Collaborative Combat Aircraft (CCA)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
647123: Collaborative Combat Aircraft (CCA)	0.000	392.210	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note In FY 2025 Project 647123 "Collaborative Combat Aircraft (CCA)" was transferred to PE 0207147F, Project 640017 in order to align with Congressional intent to separate CCA from the F-47 PE.												
A. Mission Description and Budget Item Justification Collaborative Combat Aircraft (CCA) are uncrewed weapon systems capable of enhancing crewed weapon systems ability to achieve air superiority. The program matures and leverages relevant Science and Technology investments to reduce risk by conducting targeted development, integration, and test activities. Key CCA attributes include cost of platforms, mission integrated autonomy, multi-platform interoperability, and lethality enhancement. Program activities include digital engineering, agile software development, open systems architectures, autonomy architecture, mission autonomy, crewed-uncrewed teaming, as well as the design, build, and test of full weapon systems with supporting elements. Funding provides information technology/test/training infrastructure investments, operational concept exploration, technology studies, multi-domain integration, operational assessments, architecture development, integrated weapons systems development, demonstration of air superiority related technologies, multi-level prototyping, and program management support. Program management support costs include, but are not limited to, contractor support services, civilian pay, supplies, and facility related expenses. CCA technologies are designed to become available to other DoD systems based on emerging threats, AF priorities, and development capacity. This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 6.701M was expended for civilian pay expenses in this program element, and in FY 2025 9.966M is forecast for civilian pay expenses in this program element.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Collaborative Combat Aircraft									392.210	0.000	0.000	
Description: The Collaborative Combat Aircraft effort includes operational analyses/studies, technology candidate assessments, development, integration, test, prototyping, and demonstrations to identify operational concepts and technologies to project air power against adversaries. Ongoing studies are conducted to refine CCA concepts as well as air superiority related technologies.												
FY 2025 Plans: In FY 2025 Project 647123 "Collaborative Combat Aircraft (CCA)" was transferred to PE 0207147F, Project 640017.												
FY 2026 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207110F / F-47	Project (Number/Name) 647123 / Collaborative Combat Aircraft (CCA)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
In FY 2025 Project 647123 "Collaborative Combat Aircraft (CCA)" was transferred to PE 0207147F, Project 640017.				
FY 2025 to FY 2026 Increase/Decrease Statement: In FY 2025 Project 647123 "Collaborative Combat Aircraft (CCA)" was transferred to PE 0207147F, Project 640017.				
Accomplishments/Planned Programs Subtotals		392.210	0.000	0.000
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy The Collaborative Combat Aircraft acquisition strategy is based on a multi-domain capabilities, development, planning, and oversight framework. Cross-functional teams will conduct analysis, demonstrations, and experiments to quantify the operational value of alternative concepts and technologies in order to provide solutions to current and future air superiority capability gaps. Additional details on the acquisition strategy cannot be provided at this classification level.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207110F / F-47						Project (Number/Name) 647123 / Collaborative Combat Aircraft (CCA)			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CCA Research/ Development Efforts	Various	Various : TBD	-	379.776		-		-		-		-	-	-	-
Subtotal			-	379.776		-		-		-		-	-	-	N/A
Remarks Contract specifics are not available at this level of security classification.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CCA Acquisition Support	Various	Various : TBD	-	12.434		-		-		-		-	-	-	-
Subtotal			-	12.434		-		-		-		-	-	-	N/A
Remarks CCA acquisition support includes but is not limited to A&AS, civilian pay, supplies, and facility related expenses.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	392.210		-		-		-		-	-	-	N/A
Remarks Details of contract data are not shown because of the level of security classification.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0207110F / F-47					647123 / Collaborative Combat Aircraft (CCA)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Collaborative Combat Aircraft (CCA)																												
Concept Exploration																												
Integration Studies																												
Technology Maturation Risk Reduction / Prototyping																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207110F / F-47	Project (Number/Name) 647123 / Collaborative Combat Aircraft (CCA)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Collaborative Combat Aircraft (CCA)				
Concept Exploration	1	2024	4	2030
Integration Studies	1	2024	4	2030
Technology Maturation Risk Reduction / Prototyping	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0207147F <i>I Collaborative Combat Aircraft</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	711.747	111.365	0.000	111.365	-	-	-	-	-	-
640017: <i>Collaborative Combat Aircraft</i>	0.000	0.000	711.747	111.365	0.000	111.365	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Collaborative Combat Aircraft (CCA) are uncrewed weapon systems capable of enhancing crewed weapon systems ability to achieve air superiority. The program matures and leverages relevant Science and Technology investments to reduce risk by conducting targeted development, integration, and test activities. Key CCA attributes include cost of platforms, mission integrated autonomy, multi-platform interoperability, and lethality enhancement. Program activities include digital engineering, agile software development, open systems architectures, autonomy architecture, mission autonomy, crewed-uncrewed teaming, as well as the design, build, and test of full weapon systems with supporting elements. Funding provides information technology/test/training infrastructure investments, operational concept exploration, technology studies, multi-domain integration, operational assessments, architecture development, integrated weapons systems development, demonstration of air superiority related technologies, multi-level prototyping, and program management support. Program management support costs include, but are not limited to, contractor support services, civilian pay, supplies, and facility related expenses. CCA technologies are designed to become available to other Department of Defense systems based on emerging threats, Air Force priorities, and development capacity.

The FY 2026 request for CCA includes 111,365 thousands of discretionary and 678,000 thousands of mandatory (reconciliation) for a total of 789,365 thousands. The mandatory funds address Air Superiority in FY 2026. Further information for this reconciliation request is provided in Section 20007 of the Reconciliation Exhibit.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2025 9.966 million was expended for civilian pay expenses in program element 0207110F, and in FY 2026 13.537 million is forecast for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0207147F I Collaborative Combat Aircraft			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	711.747	111.365	0.000	111.365
Total Adjustments	0.000	711.747	111.365	0.000	111.365
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	486.747			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	225.000	111.365	0.000	111.365
Change Summary Explanation					
In FY 2025, PE 0207110F, Project 647123 "Collaborative Combat Aircraft" was transferred to PE 0207147F "Collaborative Combat Aircraft", Project 640017 "Collaborative Combat Aircraft", in the amount of 486.747 million in order to meet congressional intent.					
In FY 2025, 225.000 million funding increase in Project 640017 due to distributed adjustment per DD1414.					
The FY 2026 request for CCA includes 111.365 million of discretionary and 678.000 million of mandatory (reconciliation) for a total of 789.365 million. The mandatory funds address Air Superiority in FY 2026. Further information for this reconciliation request is provided in Chapter 1 of the Reconciliation Exhibit.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0207147F / Collaborative Combat Aircraft				Project (Number/Name) 640017 / Collaborative Combat Aircraft			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640017: Collaborative Combat Aircraft	0.000	0.000	711.747	111.365	0.000	111.365	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2025, PE 0207110F, Project 647123 "Collaborative Combat Aircraft" was transferred to PE 0207147F "Collaborative Combat Aircraft", Project 640017 "Collaborative Combat Aircraft" in order to align with congressional direction to separate PE 0207110F "Next Generation Air Dominance" budget lines in FY2025. Funds requested for PE 0207147F, Project 640017 in FY 2025 are an administrative realignment only and do not constitute a new start.

A. Mission Description and Budget Item Justification

Collaborative Combat Aircraft (CCA) are uncrewed weapon systems capable of enhancing crewed weapon systems ability to achieve air superiority. The program matures and leverages relevant Science and Technology investments to reduce risk by conducting targeted development, integration, and test activities. Key CCA attributes include cost of platforms, mission integrated autonomy, multi-platform interoperability, and lethality enhancement. Program activities include digital engineering, agile software development, open systems architectures, autonomy architecture, mission autonomy, crewed-uncrewed teaming, as well as the design, build, and test of full weapon systems with supporting elements. Funding provides information technology/test/training infrastructure investments, operational concept exploration, technology studies, multi-domain integration, operational assessments, architecture development, integrated weapons systems development, demonstration of air superiority related technologies, multi-level prototyping, and program management support. Program management support costs include, but are not limited to, contractor support services, civilian pay, supplies, and facility related expenses. CCA technologies are designed to become available to other DoD systems based on emerging threats, AF priorities, and development capacity.

The FY 2026 request for CCA includes 111.365 million of discretionary and 678.000 million of mandatory (reconciliation) for a total of 789.365 million. The mandatory funds address Air Superiority in FY 2026. Further information for this reconciliation request is provided in Section 20007 of the Reconciliation Exhibit.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2025 9.96 million was expended for civilian pay expenses in program element 0207110F, and in FY 2026 13.537 million is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Collaborative Combat Aircraft	-	711.747	111.365
Description: Collaborative Combat Aircraft will conduct studies and analyses, identify technology candidates, execute concept refinement activities, execute technology maturation and risk reduction activities as well as weapon systems development,			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207147F / <i>Collaborative Combat Aircraft</i>	Project (Number/Name) 640017 / <i>Collaborative Combat Aircraft</i>		
B. Accomplishments/Planned Programs (\$ in Millions) integration, test, prototyping, demonstrations, and crewed systems integration to reduce risk and mature CCA concepts and air superiority related technologies. <i>FY 2025 Plans:</i> Collaborative Combat Aircraft will conduct studies and analyses, identify technology candidates, execute concept refinement activities, execute technology maturation and risk reduction activities as well as weapon systems development, integration, test, prototyping, demonstrations, and crewed systems integration to reduce risk and mature CCA concepts and air superiority related technologies. <i>FY 2026 Plans:</i> Collaborative Combat Aircraft will continue to conduct studies and analyses, identify technology candidates, execute concept refinement activities, execute technology maturation and risk reduction activities as well as weapon systems development, integration, test, prototyping, demonstrations, and crewed systems integration to reduce risk and mature CCA concepts and air superiority related technologies. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Decrease of 678.000 million for CCA will be appropriately offset by funding sourced from the Reconciliation Bill (H.R. 1) upon enactment. Overall funding increase of \$77.618 million due to recently awarded contracts for weapon system design, build, and test in order to achieve the programs number one priority of speed to ramp.		FY 2024	FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals		-	711.747	111.365
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy The Collaborative Combat Aircraft acquisition strategy is based on a multi-domain capabilities, development, planning, and oversight framework. Cross-functional teams will conduct analysis, demonstrations, and experiments to quantify the operational value of alternative concepts and technologies in order to provide solutions to current and future air superiority capability gaps. Additional details on the acquisition strategy cannot be provided at this classification level.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207147F / Collaborative Combat Aircraft				Project (Number/Name) 640017 / Collaborative Combat Aircraft					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CCA Research/ Development Efforts	Various	Not specified. : WPAFB, OH	-	-		684.297		79.565		-		79.565	-	-	-
Subtotal			-	-		684.297		79.565		-		79.565	-	-	N/A
Remarks															
Contract specifics are not available at this level of security classification.															
678.000 million of mandatory (reconciliation) funding to address Air Superiority in FY 2026. Further information for this reconciliation request is provided in Chapter 1 of the Reconciliation Exhibit.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CCA Acquisition Support	Various	Not specified. : WPAFB, OH	-	-		27.450		31.800		-		31.800	-	-	-
Subtotal			-	-		27.450		31.800		-		31.800	-	-	N/A
Remarks															
CCA acquisition support includes but is not limited to A&AS, civilian pay, supplies, and facility related expenses															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		711.747		111.365		-		111.365	-	-	N/A
Remarks															
Details of contract data are not shown because of the level of security classification.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0207147F / Collaborative Combat Aircraft					640017 / Collaborative Combat Aircraft			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Collaborative Combat Aircraft (CCA)																												
Concept Exploration																												
Integration Studies																												
Technology Maturation Risk Reduction/Prototyping																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207147F / Collaborative Combat Aircraft	Project (Number/Name) 640017 / Collaborative Combat Aircraft

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Collaborative Combat Aircraft (CCA)				
Concept Exploration	1	2024	4	2030
Integration Studies	1	2024	4	2030
Technology Maturation Risk Reduction/Prototyping	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0207179F I Autonomous Collaborative Platforms							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	110.945	50.666	62.019	0.000	62.019	-	-	-	-	-	-
643721: Experimental Operations Unit (EOU)	0.000	80.072	44.540	55.447	0.000	55.447	-	-	-	-	-	-
645340: Viper Experimentation and Next-gen Operations Model (VENOM)	0.000	30.873	6.126	6.572	0.000	6.572	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Autonomous Collaborative Platforms (ACP) are uncrewed weapon systems designed to work in conjunction with current and future aircraft to provide operational flexibility and enhance operational effectiveness. Key ACP attributes include tailored cost of platforms, rapidly updateable software, autonomy, interoperability with multiple platforms and network capabilities, agility of use, lethality, and ability to penetrate challenging air environments. The program matures technology to reduce risk through development, integration, experimentation, and test activities. Autonomous Collaborative Technologies (ACT) served as the starting point for the Air Force's investment in the Collaborative Combat Aircraft (CCA) program. ACP will explore Doctrine, Organization, Training, Materiel, Leadership, Personnel, Facilities, and Policy (DOTMLPF-P) concepts for uncrewed vehicles. Program activities include digital engineering, agile software development, open systems architectures, and risk reduction projects. Funding provides digital systems infrastructure, operational concept exploration, technology studies, multi-domain integration assessments, operational and system architecture development, flight test and test support, prototypes, training and demonstration, program management support, as well as maturation and risk reduction of air superiority related technologies to include weapons systems, autonomy, and integrated system concept development. Program management support costs include but are not limited to contractor support services, civilian pay, supplies, and facility related expenses.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0207179F I Autonomous Collaborative Platforms			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	118.826	51.666	62.225	0.000	62.225
Current President's Budget	110.945	50.666	62.019	0.000	62.019
Total Adjustments	-7.881	-1.000	-0.206	0.000	-0.206
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-1.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	12.500	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-2.568	0.000			
• Other Adjustments	-17.813	0.000	-0.206	0.000	-0.206
Change Summary Explanation					
In FY2024, Congressional Add of \$12.500M for semiautonomous collaborative platforms, decrease of \$2.568M for SBIR Transfer, and Air Force requested transfer of \$17.813M to line 112.					
In FY2025, budget was reduced by \$1.00M for R-3 insufficient justification.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative P latforms				Project (Number/Name) 643721 / Experimental Operations Unit (EOU)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
643721: Experimental Operations Unit (EOU)	0.000	80.072	44.540	55.447	0.000	55.447	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The Experimental Operations Unit (EOU) effort explores Doctrine, Organization, Training, Materiel, Leadership, Personnel, Facilities, and Policy (DOTMLPF-P) concepts for Collaborative Combat Aircraft (CCA). Program activities serve as early risk reduction for employment of CCA with crewed aircraft to mature operational concept development and evaluate supporting force structure to execute CCA operations. Funding provides operational concepts and studies, flight test and test support, prototypes, infrastructure investment for information technology, training and demonstration, and program management support to mature autonomous operational concepts. Program management support costs include but are not limited to contractor support services, supplies, and facility related expenses.												
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026	
Title: Experimental Operations Unit									80.072	44.540	55.447	
Description: The EOU candidate concepts consist of operational analyses, prototypes, studies and identification of operation concepts. Ongoing studies and operational analysis are conducted to refine EOU concepts related to test and employment of uncrewed platforms as well as employment with crewed platforms.												
FY 2025 Plans: EOU will continue to stand up a fully manned squadron with investments in facility modifications, critical infrastructure, and equipment. EOU continues to invest in ACP prototypes, modeling and simulation environments, and studies to refine integration of CCA into the force (DOTMLPF-P) especially related to: Agile Combat Employment, maintenance and logistics, crewed-uncrewed teaming, training requirements, uncrewed employment, and the development of needed publications, training, and policy documents.												
FY 2026 Plans: EOU will continue to stand up as a fully manned squadron with investments in facility modifications, critical infrastructure, and equipment. EOU continues to invest in ACP prototypes, modeling and simulation environments, and studies to refine integration of CCA into the force (DOTMLPF-P) especially related to: Agile Combat Employment, maintenance and logistics, crewed-												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207179F / <i>Autonomous Collaborative Platforms</i>	Project (Number/Name) 643721 / <i>Experimental Operations Unit (EOU)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
uncrewed teaming, training requirements, uncrewed employment, and the development of needed publications, training, and policy documents.			
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to additional program investments in prototypes, infrastructure, maintenance, and logistics.			
Accomplishments/Planned Programs Subtotals		80.072	44.540
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy The Experimental Operations Unit squadron is staffed with traditional Air Combat Command personnel and other cross-functional teams to develop and iterate employment and operational concepts for CCA. Funding is spent on studies, contractor support, modeling and simulation, demonstrations, exercises, and operations required to establish the framework to successfully employ CCA at operational locations.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative Platforms						Project (Number/Name) 643721 / Experimental Operations Unit (EOU)			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
EOU Research/ Development Efforts	Various	Various : TBD	-	78.193		42.180		49.916		-		49.916	-	-	-
Subtotal			-	78.193		42.180		49.916		-		49.916	-	-	N/A
Remarks Contract specifics are not available at this level of security classification.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
EOU Acquisition Support	Various	Various : TBD	-	1.879		2.360		5.531		-		5.531	-	-	-
Subtotal			-	1.879		2.360		5.531		-		5.531	-	-	N/A
Remarks EOU Acquisition Support includes but is not limited to A&AS, civilian pay, supplies, and facility related expenses.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	80.072		44.540		55.447		-		55.447	-	-	N/A
Remarks Details of contract data are not shown because of the level of security classification.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0207179F / Autonomous Collaborative Platforms					643721 / Experimental Operations Unit (EOU)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Experimental Operations Unit																												
Concept Exploration																												
Integration Studies																												
Risk Reduction																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative Platforms	Project (Number/Name) 643721 / Experimental Operations Unit (EOU)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Experimental Operations Unit				
Concept Exploration	1	2024	4	2030
Integration Studies	1	2024	4	2030
Risk Reduction	1	2024	4	2030

Note

The EOU is an enduring program with iterative DOTMLPF-P activities.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative Platforms				Project (Number/Name) 645340 / Viper Experimentation and Next-gen Operations Model (VENOM)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
645340: Viper Experimentation and Next-gen Operations Model (VENOM)	0.000	30.873	6.126	6.572	0.000	6.572	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The Viper Experimentation and Next-gen Operations Model (VENOM) effort serves as a flying autonomy testbed for Autonomous Collaborative Platforms (ACP). Program activities reduce risk to ACP through test and demonstration of the autonomy reference architecture and autonomy software on a F-16, or other human-on-the-loop testbed. Funding provides flight test and test support (including modifications), infrastructure investments for information technology, training, and program management support to mature autonomy architecture and software. Program management support costs include but are not limited to contractor support services, supplies, and facility related expenses.												
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Title: Viper Experimentation and Next-gen Operations Model										30.873	6.126	6.572
Description: The VENOM candidate concepts consist of establishing human-on-the-loop autonomy testbeds, enabling modifications and implementing initial autonomy reference architecture to reduce risk for ACP autonomy.												
FY 2025 Plans: VENOM continues aircraft hardware modifications to include integration of the latest autonomy reference architecture, continues to test autonomy skills, and develop the autonomy test infrastructure. Autonomy test infrastructure includes a digital autonomy test environment and common test tools to ensure integration between Vendors, Test Organizations, and Program Offices. Autonomy skills being matured include: 1) multi-ship behaviors 2) Defensive Counter-Air behaviors and 3) Offensive Counter-Air behaviors.												
FY 2026 Plans: VENOM will conduct government flight test campaign for risk reduction and maturation of enterprise autonomy skills to include integration of the latest autonomy reference architecture, testing of autonomy skills, and developing the autonomy test infrastructure. Autonomy test infrastructure includes a digital autonomy test environment and common test tools to ensure integration between Vendors, Test Organizations, and Program Offices. Autonomy skills being matured include: 1) multi-ship behaviors 2) Defensive Counter-Air behaviors and 3) Offensive Counter-Air behaviors.												
FY 2025 to FY 2026 Increase/Decrease Statement:												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative Platforms	Project (Number/Name) 645340 / Viper Experimentation and Next-gen Operations Model (VENOM)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Funding increase due to gradual ramp in flight test campaign hours.				
Accomplishments/Planned Programs Subtotals		30.873	6.126	6.572
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
VENOM leverages Developmental Test and Operational Test organizations to mature missionized autonomy model development and training pipelines. Funding is spent on autonomy testing, contractor support, demonstrations, and exercises for the crewed aircraft and supporting infrastructure which serves as risk reduction for ACP autonomy.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207179F / <i>Autonomous Collaborative Platforms</i>						Project (Number/Name) 645340 / <i>Viper Experimentation and Next-gen Operations Model (VENOM)</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
VENOM Research/ Development Efforts	Various	Various : TBD	-	30.748		6.126		6.262		-		6.262	-	-	-
Subtotal			-	30.748		6.126		6.262		-		6.262	-	-	N/A
Remarks Contract specifics are not available at this level of security classification.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
VENOM Acquisition Support	Various	Various : TBD	-	0.125		0.000		0.310		-		0.310	-	-	-
Subtotal			-	0.125		0.000		0.310		-		0.310	-	-	N/A
Remarks VENOM Acquisition Support includes but is not limited to A&AS, civilian pay, supplies, and facility related expenses.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	30.873		6.126		6.572		-		6.572	-	-	N/A
Remarks Details of contract data are not shown because of the level of security classification.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)		Project (Number/Name)	
3600 / 4		PE 0207179F / Autonomous Collaborative Platforms		645340 / Viper Experimentation and Next-gen Operations Model (VENOM)	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
VENOM																												
Risk Reduction																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative P latforms	Project (Number/Name) 645340 / Viper Experimentation and Next- gen Operations Model (VENOM)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
VENOM				
Risk Reduction	1	2024	4	2030

Note
Details of contract data are not shown because of the level of security classification.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0207420F <i>I Combat Identification</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	1.902	1.914	1.713	0.000	1.713	-	-	-	-	-	-
642742: <i>IFF/ATC Test and Certification</i>	0.000	1.902	1.914	1.713	0.000	1.713	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Cooperative Combat Identification employs technologies required to rapidly identify friendly platforms. The program develops, integrates and evaluates technologies that provide Air Force platforms with a means of positively identifying an air or surface (maritime) platform as a friendly, via active (or passive reception) cooperative identification capabilities. The development funded by this project ensures availability of a Mode 5 upgrade path for implementing ground and air platforms across the Air Force fleet. As Executive Agent the Department of Defense International AIMSPO has system level interoperability testing and certification responsibilities for the current Mark XIIB system, development and integration of new Identification Friend or Foe (IFF) system capabilities, and development/integration of civil Mode S capabilities into Mark XIIB Identification Friend or Foe equipment. The AIMSPO ensures Identification Friend or Foe equipment/platform functionality in accordance with established standards and ensures total system interoperability to meet Department of Defense/Service mission areas (e.g. Offensive Counter Air, Defensive Counter Air, and Integrated Air and Missile Defense).

The goals will be to test and certify the Mark XIIB system, develop and integrate the new Mark XIIB Identification Friend or Foe system capability (Mode 5 Level 2 Broadcast) and also continue the development/integration of civil Mode S capabilities into Mark XIIB Identification Friend or Foe equipment using newly fielded M-code GPS receivers. The Office of the Secretary of Defense and Federal Aviation Administration guidelines required Mode 5 be fully implemented by FY 2020 but many platforms continue to integrate this capability. The Department of Defense (DoD) AIMS Program will ensure those certifications are current on all applicable platforms/ systems and work with both domestic and foreign military sales partners to ensure compliance. The funds also support representation to several military (United States and NATO) and civil (Federal Aviation Administration, International Civil Aviation Organization and Radio Technical Commission for Aeronautics) requirements meetings for Mode 5, Mode S and ADS-B. These important meetings allow the Department of Defense to remain interoperable with our foreign military partners as well as the United States and international civil aviation community. Department of Defense AIMS Program will continue to update the Department of Defense AIMS Mark XIIB Standards, Security Classification Guide, Handbook, and Test Requirements.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0207420F I Combat Identification				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	1.902	1.914	1.998	0.000	1.998	
Current President's Budget	1.902	1.914	1.713	0.000	1.713	
Total Adjustments	0.000	0.000	-0.285	0.000	-0.285	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	-0.285	0.000	-0.285	
Change Summary Explanation						
FY2026 decreased compared to FY2025 by \$0.201 million for decrease prioritization of IFF software integration/testing for existing aircraft.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Air Traffic Control and Radar Beacon Systems Identification Friend or Foe Mark XII System (AIMS) Program Office				1.902	1.914	1.713
Description: Develop and maintain technical standards on development, integration, testing, and certification of Department of Defense Identification Friend or Foe equipment. Coordinate and execute equipment/subsystem-level certifications and platform certifications of Identification Friend or Foe capabilities. Currently managing 101 active Foreign Military Sales Cases. Support NATO Identification Friend or Foe Capabilities Team (Mode 5 Identification Friend or Foe is a NATO waveform). Support International Civil Aviation Organization (ICAO) Technical Support Group (develops standards for world-wide civil Air Traffic Control). Create and maintain civil Mode S address assignments and military Mode 5 Platform Identification Number assignments for every Department of Defense platform using these waveforms in their interrogator and/or transponder equipment. Plan and execute annual User Working Group provides information to the Users on Identification Friend or Foe (IFF); provides seminars to the Users on Basic IFF, Advanced IFF, Mode 5 Test Sets and Crypto training. The main purpose of the Working Group is to share solutions and resolutions between Users, NATO, COCOMs and Program Offices on IFF, Mode 5, Mode S (civil and military).						
FY 2025 Plans:						
Continue updating and developing Identification Friend or Foe standards and support Mode 5 equipment for Air Traffic Control and Radar Beacon Systems Identification Friend or Foe Mark XII System (AIMS) for interoperability testing (civil and military). Initiate steps to start identification of technologies and develop requirements for the IFF (cooperative ID) system.						
FY 2026 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0207420F <i>I Combat Identification</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Continue updating and developing Identification Friend or Foe standards and support Mode 5 equipment for Air Traffic Control and Radar Beacon Systems Identification Friend or Foe Mark XII System (AIMS) for interoperability testing (civil and military). Continue steps for identification of technologies and develop requirements for the next-generation IFF (cooperative ID) system. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY2026 decreased compared to FY2025 by \$0.201 million for decrease prioritization of IFF software integration/testing for existing aircraft.				
Accomplishments/Planned Programs Subtotals		1.902	1.914	1.713
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy Combat Identification develops technologies for implementation by the United States Air Force and the other services. Award multiple, competitive contract vehicles emphasizing off-the-shelf technology and maximizing the use of non-developmental items (NDIs). Develop/mature technology to a point that it can be demonstrated in a relative combat environment.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207420F / Combat Identification				Project (Number/Name) 642742 / IFF/ATC Test and Certification					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Systems Engineering / Program Management - AIMS Program Office	MIPR	DTIC : Robbins AFB, GA	-	1.717	Apr 2024	1.728	Apr 2025	1.526	Apr 2026	-		1.526	-	-	-
Subtotal			-	1.717		1.728		1.526		-		1.526	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Office Support	Various	Various : Various	-	0.185		0.186		0.187		-		0.187	-	-	-
Subtotal			-	0.185		0.186		0.187		-		0.187	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.902		1.914		1.713		-		1.713	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 4					PE 0207420F / Combat Identification			642742 / IFF/ATC Test and Certification				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Cooperative Identification Techniques																												
AIMS Program Office Activities																												
AIMS Program Office Annual User Working Group (May 2024)																												
AIMS Program Office Annual User Working Group (May 2025)																												
AIMS Program Office Annual User Working Group (May 2026)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207420F / <i>Combat Identification</i>	Project (Number/Name) 642742 / <i>IFF/ATC Test and Certification</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Cooperative Identification Techniques</i>				
AIMS Program Office Activities	1	2024	4	2029
AIMS Program Office Annual User Working Group (May 2024)	3	2024	3	2024
AIMS Program Office Annual User Working Group (May 2025)	3	2025	3	2025
AIMS Program Office Annual User Working Group (May 2026)	3	2026	3	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0207448F / <i>C2ISR Tactical Data Link</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	3.500	0.000	0.000	0.000	-	-	-	-	-	-
644413: <i>E-7</i>	0.000	0.000	3.500	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2025, Project E-7 was completed.

A. Mission Description and Budget Item Justification

Tactical Data Links (TDL), as a subset of the broader airborne network, are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs provide a jam-resistant; secure digital data transfer network capability with new and standardized waveforms and data formats allowing Line-of-Sight (LOS) and Beyond-Line- of-Sight (BLOS) intra- and inter-flight communications. TDLs increase mission effectiveness, provide positive identification of aircraft in the network, correlate on and off-board sensor data sharing, target, and threat information, and provide the data link to accomplish time critical targeting and other mission update functions. TDLs are used by all service theater Command and Control (C2) elements, weapons platforms, and sensors.

This program provides critical capability and enhancements to the airborne network by supporting common development, integration and interoperability among ground and C2 platforms and responds to quick reaction capability integration and demonstration

The E-7 program replaces the unsustainable E-3 Airborne Warning and Control System (AWACS). The E-3 AWACS, first fielded in the 1970s, is at the end of its service life, and costly to maintain. The E-7 will serve as the USAF's principal airborne platform for airborne command and control and airborne moving target indicator, providing a reliable, persistent critical node in the long range kill chain for the Joint Force Air Component Commander (JFACC).

Project E-7 funds E-7A advanced communications data studies (to include but not limited to hybrid SATCOM, Internet Protocol Beyond Line-of-Sight (IP-BLOS), and datalink), analysis, and further requirements definition, and software and hardware development and testing. These advanced communication capabilities not in the E-7A Rapid Prototyping Baseline are required to increase E-7A communications resiliency, enabling seamless connectivity with the DAF Battle Network and ensuring that the platform can connect to various SATCOM networks and datalinks should one or more SATCOM networks or datalinks become unavailable.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, or 0606398F. In FY 2024, \$0.000M was expended for civilian pay expenses in this program element. In FY 2025, \$0.000M is forecasted for civilian pay expenses in this program element.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0207448F I C2ISR Tactical Data Link				
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.000	42.371	43.311	0.000	43.311
Current President's Budget		0.000	3.500	0.000	0.000	0.000
Total Adjustments		0.000	-38.871	-43.311	0.000	-43.311
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-21.185			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	-17.686	-43.311	0.000	-43.311
Change Summary Explanation						
FY2025 funding reduced by \$21.185M due to Congressional Directed Reduction for excess funds and reduced by \$17.686M due to Other Adjustments Transfer from PE 0207448F C2ISR to PE 0207147F.						
FY2026 funding reduced by \$41.311M due to completion of Project E-7.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: E-7 Advanced Communications				-	3.500	-
Description: Funds acquire advanced communication capabilities for the E-7 platform. This effort was previously entitled "E-7 IP-BLOS" in the FY25PB.						
FY 2025 Plans:						
- Complete E-7 advanced communications studies, analysis, and requirements and early design definition for incorporation into the E-7A baseline.						
- Perform software and hardware prototype development and testing.						
FY 2025 to FY 2026 Increase/Decrease Statement:						
Funding decreased due to completion of initial study.						
Accomplishments/Planned Programs Subtotals				-	3.500	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0207448F I C2ISR Tactical Data Link							
D. Other Program Funding Summary (\$ in Millions)												
	<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
	• RDTE 04 0604007F: E-7	849.565	607.413	199.676	-	199.676	-	-	-	-	-	-
Remarks												
E. Acquisition Strategy												
The E-7 Advanced Communications initiative will leverage an existing sole source contract.												
The Milestone Decision Authority for the E-7 program is the Assistant Secretary of the Air Force for Acquisition, Technology, and Logistics. Program management for the E-7 program is under direction of PEO Intelligence, Surveillance, Reconnaissance (ISR) and Special Operations Forces (SOF) located at Wright-Patterson AFB, OH. The Air Force Life Cycle Management Center located at Wright-Patterson AFB, OH is the contracting authority for the E-7A program. AFLCMC provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207448F / C2ISR Tactical Data Link						Project (Number/Name) 644413 / E-7			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
E-7 Rapid Prototyping	SS/CPIF	The Boeing Company : Tukwila, WA	-	-		3.185	Jul 2025	-		-		-	-	-	-
Subtotal			-	-		3.185		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs (PSC)	Various	AWACS & Wedgetail PMO : Hanscom AFB, MA	-	-		0.315	Jul 2025	-		-		-	-	-	-
Subtotal			-	-		0.315		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		3.500		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity
3600 / 4

R-1 Program Element (Number/Name)
PE 0207448F / C2ISR Tactical Data Link

Project (Number/Name)
644413 / E-7

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
E-7																												
E-7 Advanced Communications																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207448F / C2ISR Tactical Data Link	Project (Number/Name) 644413 / E-7

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
E-7				
E-7 Advanced Communications	4	2025	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force											Date: June 2025	
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0207455F / <i>Three Dimensional Long-Range Radar (3DELRR)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	13.875	8.100	17.344	0.000	17.344	-	-	-	-	-	-
646002: <i>Three Dimensional Expeditionary Long Range Radar</i>	0.000	13.875	8.100	17.344	0.000	17.344	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 393												
<u>A. Mission Description and Budget Item Justification</u> The Three-Dimensional Expeditionary Long-Range Radar (3DELRR) program develops the AN/TPY-4 system which is the designated replacement for the AN/TPS-75 radar. The AN/TPS-75 is an outdated and unsustainable system which was first fielded in the early 1970s. The 3DELRR system will be the United States Air Force's (USAF's) principal long-range, ground-based sensor for detecting, identifying, tracking, and reporting aerial tracks for the Joint Force Air Component Commander (JFACC). The 3DELRR system consists of the AN/TPY-4 radar and associated ground support equipment which includes Prime Movers, Generators, and other smaller mission support items. When fielded, the 3DELRR system will provide multiple benefits and increased capabilities to the USAF and the Joint Services, including: the ability to detect and track modern and emerging highly maneuverable, small radar cross-section airborne target; greater battlefield and battlespace awareness through a precise, real-time air picture of sufficient quality to control individual aircraft under a wide range of environmental and operational conditions; and increased reliability, operational availability, maintainability, transportability, survivability, and sustainability. FY 2026 funding will continue system capability development, which include development of electronic protection (EP) techniques, continued software fixes and Non-Recurring Engineering (NRE) costs. Additionally, FY 2026 funding will support continued test and evaluation activity, to include Initial Operational Test and Evaluation (IOT&E) of the system. 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 2025 \$0.12 million was expended for civilian pay expenses in this program element, and in FY 2026 \$0.17 million is forecasted for civilian pay expenses in this program element. This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0207455F I Three Dimensional Long-Range Radar (3DELRR)				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	19.763	8.100	0.069	0.000	0.069	
Current President's Budget	13.875	8.100	17.344	0.000	17.344	
Total Adjustments	-5.888	0.000	17.275	0.000	17.275	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	-5.370	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	-0.518	0.000				
• Other Adjustments	0.000	0.000	17.275	0.000	17.275	
Change Summary Explanation						
In FY 2024, \$5.37 million reduction due to unjustified cost growth in the initial production unit cost.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: TPY-4 Prime Contract System Development & Test Support				9.060	4.458	6.569
Description: Funds will be used for the development, integration, and test support of TPY-4 radar system.						
FY 2025 Plans:						
- Continue planned incremental system capability development.						
- Continue the development of electronic protection techniques.						
- Perform system fixes to address deficiencies identified during test events.						
- Fund test support for government led test activities.						
FY 2026 Plans:						
- Continue the development of electronic protection techniques.						
- Begin Development of Decoy capability.						
- Perform system fixes to address deficiencies identified during test events.						
- Fund test support for government led test activities.						
FY 2025 to FY 2026 Increase/Decrease Statement:						
FY2026 budget was increased to support the capability development and Initial Operational Test and Evaluation efforts.						
Title: Government Development, Operational & Integration Test and Evaluation Execution				4.815	3.642	10.775

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0207455F / <i>Three Dimensional Long-Range Radar (3DELRR)</i>						

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
Description: Execution of Government-led Developmental, & Operational Test and Evaluation Activities. FY 2025 Plans: - Conduct government-led integrated test and evaluation activity to characterize system performance. - Fund system engineering to support program reviews. FY 2026 Plans: - Continue government-led integrated test and evaluation activity to characterize system performance. - Begin initial operational test & evaluation (IOT&E) to support system fielding decision. - Fund system engineering to support program reviews. FY 2025 to FY 2026 Increase/Decrease Statement: FY2026 budget increased to support the planned system IOT&E events.			
Accomplishments/Planned Programs Subtotals	13.875	8.100	17.344

D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 03 833060: 3D Expeditionary Long-Range Radar	178.723	96.022	103.226	-	103.226	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy The Service Acquisition Executive (SAE) designated the 3DELRR program a Middle Tier of Acquisition (MTA) Rapid Prototyping effort on 27 December 2019. The program used Other Transactional Agreements to conduct the competitive prototype capability demonstrations. On 15 March 2021, the SAE delegated contract award and down select decision authority to the Air Force Program Executive Officer (PEO) Digital. On 1 April 2022, the SAE designated 3DELRR an MTA Rapid Fielding effort, thereby concluding the Rapid Prototyping effort and enabling the program to start production of the first two initial production units. 3DELRR is tentatively planned to transition from an MTA to a Major Capability Acquisition (MCA) program in FY2026.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207455F / Three Dimensional Long-Range Radar (3DELRR)				Project (Number/Name) 646002 / Three Dimensional Expeditionary Long Range Radar					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
TPY-4 Prime Contract	C/FFP	Lockheed Martin : Syracuse, NY	0.000	9.060	Mar 2024	4.458	Jan 2025	6.569	Jan 2026	-		6.569	-	-	-
Subtotal			0.000	9.060		4.458		6.569		-		6.569	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
System Engineering - C	SS/CPFF	GTRI : Atlanta, GA	0.000	0.137	Jun 2024	0.333	Jun 2025	0.340	Jun 2026	-		0.340	-	-	-
Subtotal			0.000	0.137		0.333		0.340		-		0.340	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Air Force Operational Test and Evaluation Center (AFOTEC)	PO	AFOTEC Det 2/C2 : Eglin AFB, FL	0.000	-		-		7.318	Nov 2025	-		7.318	-	-	-
Government Developmental Test and Evaluation Planning and Preparation	PO	46 TS : Eglin AFB, FL	0.000	3.929	May 2024	2.872	May 2025	2.302	May 2026	-		2.302	-	-	-
Subtotal			0.000	3.929		2.872		9.620		-		9.620	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	AFLCMC/HBDD : Hanscom AFB, MA	0.000	0.749	Jul 2024	0.437	Jul 2025	0.815	Jul 2026	-		0.815	-	-	-
Subtotal			0.000	0.749		0.437		0.815		-		0.815	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025						
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0207455F / Three Dimensional Long-R ange Radar (3DELRR)					Project (Number/Name) 646002 / Three Dimensional Expeditionary Long Range Radar							
					Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals					0.000	13.875		8.100		17.344		-		17.344	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0207455F / Three Dimensional Long-Range Radar (3DELRR)				Project (Number/Name) 646002 / Three Dimensional Expeditionary Long Range Radar			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Three Dimensional Expeditionary Long Range Radar																												
Develop and test full complement of electronic protection techniques																												
Government Test (GDT&E & IOT&E)																												
Design, build, and verify decoys																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207455F / Three Dimensional Long-Range Radar (3DELRR)	Project (Number/Name) 646002 / Three Dimensional Expeditionary Long Range Radar	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Three Dimensional Expeditionary Long Range Radar				
Develop and test full complement of electronic protection techniques	1	2024	2	2026
Government Test (GDT&E & IOT&E)	3	2024	2	2026
Design, build, and verify decoys	2	2026	3	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0207522F I Airbase Air Defense Systems (ABADS)							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	67.182	17.273	15.785	0.000	15.785	-	-	-	-	-	-
640410: Tech Maturation & Risk Reduct	0.000	67.182	17.273	15.785	0.000	15.785	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Airbase Air Defense Systems (ABADS) program element is the principal Air Force (AF) program to provide the ability to detect, track, identify, and defeat airborne threats to missions and assets. These threats include small-unmanned aircraft systems (sUAS), Rockets, Artillery and Mortars (RAM), and cruise missiles. These two efforts (Missile Defense (MD) and Counter-sUAS (C-sUAS)) aim to protect personnel, assets, and infrastructure vital to supporting the national security strategy.

ABADS MD is designed as a configurable combination of Commercial Off the Shelf (COTS)/Government Off the Shelf (GOTS) sensor and Non-Kinetic Effector (NKE) technologies integrated with tailored Battle Management Command and Control (BMC2) subsystem that leverages GOTS products and Advanced Battle Management System (ABMS) Digital Infrastructure to provide adaptive, resilient, and dedicated air defense capability. The ABADS MD system is designed to operate independently or combine with other local and distributed capabilities to form a multi-layered defense-in-depth, improving airbase defense and airbase resiliency.

ABADS MD FY2026 funding will support development efforts to operationalize the NKE following prototype transition from AFRL. Funding will also support and maintain a Government Development Security and Operations (DevSecOps) software pipeline, supporting software updates and prioritized capability upgrades. The Government DevSecOps pipeline will also support further alignment with the ABMS portfolio (Distributed Battle Management Node, Digital Infrastructure, and Cloud Based Command and Control). FY2026 funding also supports Director, Operational Test and Evaluation (DOT&E) oversight required test activities.

The FY 2026 request was reduced by 0.015 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

The FY 2026 request for ABADS MD includes 5,041 thousand of discretionary and 15,000 thousand of mandatory (reconciliation) for a total of 20,041 thousand. The mandatory funds support ABADS MD development and integration activities in support of Golden Dome. Further information for this reconciliation request is provided in Section 20004 (Enhancement of Department of Defense Resources for Munitions and Defense Supply Chain Resiliency) of the Reconciliation Exhibit.

ABADS Counter-small Unmanned Aircraft Systems (C-sUAS) specifically aims to counter the threats posed by the rapid proliferation of inexpensive yet highly capable systems, and the enemies who target US Service members, Allies, and Coalition partners. The ABADS C-sUAS program will continue to analyze evolving threats, evaluate new capabilities, and design an open system architecture that reduces life cycle cost and enables fielding to all 180+ AF installations. ABADS C-sUAS features a system of systems approach to integrate sensors and effectors into a robust Command and Control (C2) interface able to detect, track, identify, and defeat sUAS threats. The AF works closely with the DoD Joint C-sUAS Office (JCO) to align annual efforts.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0207522F <i>I Airbase Air Defense Systems (ABADS)</i>
ABADS C-sUAS FY2026 funding will further develop and test Command, Control, Communication, Computers, and Intelligence (C4I) systems to include follow-on of Medusa C2 System and focus on needed fixed and expeditionary site sense and defeat capability development. The Medusa C2 system supports Joint All-Domain Command & Control (JADC2) development and is required to employ electronic warfare capabilities, artificial intelligence, operator workload and task reduction capabilities, closed-loop training system for operator certification and proficiency, identification capabilities, and sensor fusion. Funding will support development and test of Medusa C2 software to further interoperability and incorporation within the ABMS architecture. It will continue electronic warfare upgrades, to include but not limited to new sensor and effector components, and add new Electronic Warfare skills which leverage current Ninja or future EW capabilities within Medusa C2 and other C2 systems. Funding will also continue efforts in alignment with the DoD's JCO, including cyber hardening of all new system changes, and support management of JCO funded Ninja development. Additionally, funding will be utilized to conduct studies, analysis, and evaluations of threats and capability gaps along with evaluation and streamlined acquisition of new capabilities. ABADS C-sUAS funding will also support innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/ demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs. Funds will be used to further develop detection, tracking, ID, fusion and C2 technical solutions for a National Capital Region (NCR) C-sUAS system for protection of Presidential aviation assets and Common Operational Picture (COP). The NCR COP will include cloud-based infrastructure and system architectures. The FY 2026 cost of the ABADS C-sUAS Next Gen C2 Systems (CNGCS) Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission. The FY 2026 request was reduced by 2.356 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 0.000M was expended for civilian pay expenses in this program element, and in FY 2025 0.231M is forecasted for civilian pay expenses in this program element. This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0207522F I Airbase Air Defense Systems (ABADS)				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	78.867	17.273	14.361	0.000	14.361	
Current President's Budget	67.182	17.273	15.785	0.000	15.785	
Total Adjustments	-11.685	0.000	1.424	0.000	1.424	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	-9.565	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	-2.120	0.000				
• Other Adjustments	0.000	0.000	1.424	0.000	1.424	
Change Summary Explanation						
FY2024 - \$9.565M Congressional Mark against ABADS MD for prototype development previously funded.						
FY2024 - \$2.120M SBIR Adjustment						
FY2025 - Funding increase for ABADS C-sUAS supporting the National Capital Region (NCR) Common Operating Picture (COP) effort.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: ABADS Counter-small Unmanned Aircraft Systems (C-sUAS)				5.444	12.235	10.744
Description: The ABADS C-sUAS program will continue to defend against emerging and growing airborne threats. This program protects strategic assets vital to national security while bedded down and while on the move. This program will continue to counter emerging threats posed by advancements in enemy employment tactics and commercially available technology.						
FY 2025 Plans:						
- Updating Medusa Command and Control (C2) software to further interoperability and incorporation within the Advanced Battle Management System (ABMS) architecture.						
- Continuing electronic warfare upgrades, to include but not limited to new sensor and effector components, and new Electronic Warfare capabilities which leverage current Ninja capability or future Electronic Warfare capabilities within Medusa C2 and other C2 systems.						
- Continuing efforts in alignment with the DoD's Joint Counter-small Unmanned Aircraft Systems Office (JCO).						
- Evaluating/testing/qualifying new capabilities and add those to the capability baseline to enable streamlined acquisition of systems.						
- Developing and testing, via bi-weekly software sprints, annual software upgrades.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0207522F <i>I Airbase Air Defense Systems (ABADS)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Ensuring cyber security requirements are developed and incorporated in all new system changes. - Supporting oversight, management, and execution of JCO funded development efforts. - Conducting studies, analysis, and evaluations of threats and capability gaps to refine and update requirements enabling upgraded and improved capabilities. - Initiating and continuing contractor testing of developed updates. - Investigating and prototyping capabilities to support expeditionary systems. - Developing National Capital Region Common Operating Picture (NCR COP) technical solutions to include joint interoperability of C-sUAS sensors, development of correlation and fusion processing, and to develop cyber-secure cloud infrastructure for data dissemination and processing for C-sUAS protection of Presidential aviation assets. FY 2026 Plans: - Will continue to update Medusa C2 software to further interoperability and incorporation within the ABMS architecture (e.g., Unified Data Library). - Will continue electronic warfare upgrades, to include but not limited to new sensor and effector components, and new Ninja skills which leverage full Ninja capability within Medusa C2 and other C2 systems. - Will continue efforts in alignment with the DoD's JCO. - Will continue to evaluate new capabilities and add those to the capability storefront to enable streamlined acquisition of capabilities for bases. - Will continue to develop and test C2 capabilities, via planned incremental software sprints, annual software upgrades. - Will continue to ensure cyber security requirements are developed and incorporated in all new system changes. - Will continue to support oversight, management, and execution of JCO funded development efforts. - Will continue to conduct studies, analysis, and evaluations of threats and capability gaps to refine and update requirements enabling upgraded and improved capabilities. - Will initiate and continue contractor testing of developed updates. - Will integrate initial kinetic effectors for evaluation for broader DAF employment to include low collateral effects intercept (LCEI) capabilities and other kinetic solutions such as APKWS. - Will continue to integrate capabilities on expeditionary systems. - Will further develop NCR COP technical solutions to include joint interoperability of C-sUAS sensors, development of correlation and fusion process, and to develop cyber-secure cloud infrastructure for data dissemination and processing for C-sUAS protection of Presidential aviation assets. FY 2025 to FY 2026 Increase/Decrease Statement: FY2025 to FY2026 funding decrease of \$1.491 million due to reductions in Advisory and Assistance Services.				
Title: ABADS Missile Defense (MD)		61.738	5.038	5.041

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0207522F I Airbase Air Defense Systems (ABADS)						
C. Accomplishments/Planned Programs (\$ in Millions)									FY 2024	FY 2025	FY 2026
Description: During this program phase, the ABADS MD capability will initially field. RDT&E activities in this phase focus on migration to a government DevSecOps software development framework, alignment with ABMS infrastructure and capabilities, final completion of Rapid Prototyping Requirements Document (RPRD) software backlog, and incorporation of additional capabilities. FY 2025 Plans: - Participating in select AF and theater exercises and demonstrations - Completing migration of software development efforts to government-run DevSecOps software pipeline - Continue supporting initial fielding of ABADS MD capability, and any remaining RPRD software work - Developing, testing, and fielding capability enhancements as identified - Generate formal program documentation in support of fielding effort FY 2026 Plans: - Will conclude prototyping efforts - Will support development efforts in support of the operationalization of the Non-Kinetic Effector - Will participate in select AF and theater exercises and demonstrations - Will continue software development efforts on a government-run DevSecOps software pipeline - Will support fielding of ABADS MD capability - Will develop, test, and field capability enhancements as identified - Will continue generation of formal program documentation in support of fielding effort FY 2025 to FY 2026 Increase/Decrease Statement: Work remains consistent from FY2025 to FY2026 as funding increases by \$0.018M due to inflationary changes.											
Accomplishments/Planned Programs Subtotals									67.182	17.273	15.785
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 03 0207522F: Airbase Air Defense Systems (ABADS) for Missile Defense	-	64.665	82.800	-	82.800	-	-	-	-	-	-
• OPAF 03 0207522F.: Airbase Air Defense Systems (ABADS) for C-sUAS	51.541	99.550	54.891	-	54.891	-	-	-	-	-	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0207522F I Airbase Air Defense Systems (ABADS)						
D. Other Program Funding Summary (\$ in Millions)											
	<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u> <u>Total Cost</u>
<u>Remarks</u>											
E. Acquisition Strategy											
The ABADS MD program is a Prototyping Investment Activity (PIA) effort. The program uses Indefinite Deliverable / Indefinite Quantity (ID/IQ) contracts to support the prototype capability development. The Advanced Battle Management System (ABMS) Division within PEO C3BM provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support. AFLCMC provides Other Transaction Authority. C-sUAS follows a MTA approach to rapidly prototype capabilities. The Government Team is augmented by engineering and integration (E&I) contract service support in an effort to keep pace with the adversary threat environment. For FY2026, the primary efforts endeavor to improve cybersecurity posture, and resolve system gaps. Example integration services also include, but are not limited to, establishing a Continuous Integration/Continuous Delivery (CI/CD) software pipeline, implementing Agile DevSecOps processes and deploying model-based design. As possible, the Government will leverage small business innovative research opportunities to produce capabilities for detection and defeat of airborne threats. The milestone decision authority (MDA) for this effort is PEO Electronic Systems.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207522F / Airbase Air Defense System s (ABADS)				Project (Number/Name) 640410 / Tech Maturation & Risk Reduct s					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ABADS C-sUAS - Software Development	Various	Not specified. : TBD	-	2.080	May 2024	2.050	May 2025	3.800	Oct 2025	-		3.800	-	-	-
ABADS C-sUAS - Hardware System Development	Various	Not specified. : TBD	-	2.080	Jul 2024	2.152	Apr 2025	3.633	Oct 2025	-		3.633	-	-	-
ABADS C-sUAS - NCR COP Development	Various	Not specified. : TBD	-	-		5.741	Apr 2025	0.916	Oct 2025	-		0.916	-	-	-
ABADS MD - Prototype Development (Hardware / Software)	Various	2.1 - Proto / 2.2 S/ W : WPAFB, OH	-	51.115	Mar 2024	3.920	Jun 2025	2.500	Nov 2025	-		2.500	-	-	-
ABADS MD - Government Software Pipeline	Various	Software Development : WPAFB, OH	-	3.185	Aug 2024	0.000	Dec 2024	1.000	Nov 2025	-		1.000	-	-	-
Subtotal			-	58.460		13.863		11.849		-		11.849	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority (C- sUAS)	Various	Not specified. : TBD	-	0.000	Apr 2024	0.232	Jun 2025	0.250	Oct 2025	-		0.250	-	-	-
Direct Cite Authority (MD)	Various	Not specified. : TBD	-	0.000	Dec 2023	0.000	Oct 2024	-		-		-	-	-	-
Subtotal			-	0.000		0.232		0.250		-		0.250	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ABADS C-sUAS - Test & Eval	Various	Not specified. : TBD	-	0.018	Aug 2024	0.625	Jun 2025	0.470	Nov 2025	-		0.470	-	-	-
ABADS MD - Demonstration & Test	Various	2.3 - System Testing : TBD	-	3.257	Sep 2024	0.000	Jul 2025	-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207522F / Airbase Air Defense System (ABADS)				Project (Number/Name) 640410 / Tech Maturation & Risk Reductions (ABADS)					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Subtotal			-	3.275		0.625		0.470		-		0.470	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ABADS C-sUAS - Management Services	C/Various	Various : Hanscom, MA	-	1.266	Aug 2024	1.435	Oct 2024	1.675	Oct 2025	-		1.675	-	-	-
ABADS MD - Support Costs	C/Various	Various (2.1, 2.2, 2.3) : WPAFB, OH	-	4.181	Jul 2024	1.118	Jun 2025	1.541	Nov 2025	-		1.541	-	-	-
Subtotal			-	5.447		2.553		3.216		-		3.216	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	67.182		17.273		15.785		-		15.785	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0207522F / Airbase Air Defense System (ABADS)					Project (Number/Name) 640410 / Tech Maturation & Risk Reductions (ABADS)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
ABADS C-sUAS - Events																												
1.1 - ABADS C-sUAS - Joint Service Lead System Development																												
1.2 - ABADS C-sUAS - Software Development																												
1.3 - ABADS C-sUAS - Hardware Development																												
1.4 - ABADS C-sUAS - NCR COP Development																												
1.5 - ABADS C-sUAS - Test																												
ABADS MD - Events																												
2.1 - ABADS MD - Prototype Development																												
2.2 - ABADS MD - BMC2 Development (Software)																												
2.3 - ABADS MD - Prototype Demonstration and Test																												
2.4 - ABADS MD - Operational Software Continuous Integration/Test/Delivery																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025	
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0207522F / Airbase Air Defense System (ABADS)	Project (Number/Name) 640410 / Tech Maturation & Risk Reductions (ABADS)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ABADS C-sUAS - Events				
1.1 - ABADS C-sUAS - Joint Service Lead System Development	4	2024	4	2026
1.2 - ABADS C-sUAS - Software Development	4	2024	4	2030
1.3 - ABADS C-sUAS - Hardware Development	3	2024	4	2030
1.4 - ABADS C-sUAS - NCR COP Development	1	2025	2	2027
1.5 - ABADS C-sUAS - Test	2	2024	4	2030
ABADS MD - Events				
2.1 - ABADS MD - Prototype Development	1	2024	2	2026
2.2 - ABADS MD - BMC2 Development (Software)	1	2024	2	2026
2.3 - ABADS MD - Prototype Demonstration and Test	3	2024	2	2026
2.4 - ABADS MD - Operational Software Continuous Integration/Test/Delivery	4	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0207606F <i>I Joint Simulation Environment (JSE)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	149.502	260.667	0.000	260.667	-	-	-	-	-	-
642407: <i>Joint Simulation Environment</i>	0.000	0.000	149.502	260.667	0.000	260.667	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Joint Simulation Environment (JSE) is the Air Force's synthetic solution for High-End Advanced Training, Tactics, and Testing (HEAT3). JSE supports operational plan rehearsals, large force exercises, and aircrew training events. This capability directly supports United States Air Force Warfare Center (USAFWC), United States Air Force Weapons School, Air Force Test Center (AFTC), Air Force Operational Test and Evaluation Center (AFOTEC), and augments platform training efforts that cannot be performed in open air. JSE encompasses, but is not limited to, lab facilities for development and experimentation, as well as multiple test and training locations, to include, but not limited to: Joint Integrated Test & Training Center Nellis AFB (JITTC-N), Digital Test & Training Range Nellis AFB (DTTR-N), Digital Test & Training Range Edwards AFB (DTTR-E), and future planned location JITTC-Joint Base Elmendorf-Richardson (JITTC-E).

JSE Platform-In-A-Box (PIAB) Operational Flight Program (OFP) Based Simulator Development: Entails the study, evaluation, early experimentation, and development for platforms beyond the current/existing F-35 capability. Activities include analysis of OFPs against JSE software and interface standards, as well as common hardware standards enabling remote monitoring, updates, and security management.

JSE Digital Test and Training Ranges (DTTR): Maintains and upgrades existing test capabilities, to include the continuation of installation, integration, and verification/validation activities in support of fielded and future platforms and virtual air threats. Furthermore, the 445 Test Squadron at DTTR-E manages Developmental Test (DT) and Operational Test (OT) events, as well as cyber testing integration for the JSE Enterprise as part of their Lead Developmental Test Organization (LDTO) designation.

JSE Core Environment Development/Integration: Continues to develop JSE foundational capabilities enabling further test, integration, and training. Activities include but are not limited to experimentation, development/enhancement of JSE connected systems, tools, services, hardware, and simulators to integrate new and existing digital entities (platforms, sensors, adversary & friendly weapons, ground & airborne threats), and common services including but not limited to weather effects, infrared (IR) models, cyber, and space.

Funding may also be used to address Diminishing Manufacturing Sources (DMS) issues, obsolescence resolution and similar emerging requirements, as well as for overarching programmatic support. Funding for this exhibit is contained in PE 0207606F.

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0207606F I Joint Simulation Environment (JSE)				
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, 0605898F. As this PE was established in FY 2025, FY 2024 civilian pay costs are not applicable, and in FY25 10.395M is forecasted for civilian pay expenses in this program element.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.000	191.337	363.646	0.000	363.646
Current President's Budget		0.000	149.502	260.667	0.000	260.667
Total Adjustments		0.000	-41.835	-102.979	0.000	-102.979
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-41.835			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-102.979	0.000	-102.979
Change Summary Explanation						
FY 2025 adjustment for 0207606F Joint Simulation Environment (JSE) PE due to 30.113M unjustified growth and 11.722M JSE-XA ahead of need.						
In FY 2026 70.4M was transferred from RDT&E to APAF and OPAF to properly align JSE funding. 15.8M was transferred to support FY 2026 test efforts. Furthermore, JSE reduced the FY 2026 budget request by an additional 16M due to schedule refinement and level of effort clarity through the formal planning phase of the program resulting in a total reduction of 102.979.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: JSE Platform In-A-Box (PIAB) and Pilot Vehicle Interface (PIV) Hardware Simulator Development				0.000	7.000	26.579
Description: Includes, but is not limited to, platform study, evaluation, and early experimentation activities to assess OFPs against JSE Government Simulator Interface (GSI) and Simulator Common Architecture, Requirements, & Standards (SCARS), and develop high-fidelity Platform OFP-based simulator and accompanying high-fidelity mission system and sensor models. Involves the evaluation and integration of new and emerging technologies including, but not limited to, Extended Reality (XR)/ Virtual Reality (VR) goggle capability, artificial intelligence (AI), and common hardware solutions, to include common cockpit						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0207606F <i>I Joint Simulation Environment (JSE)</i>		
C. Accomplishments/Planned Programs (\$ in Millions) configurations for training-focused sites. Supports research and development activities to generate data/conduct analysis to support the integration and testing of platform OFP-based simulators.		FY 2024	FY 2025	FY 2026
FY 2025 Plans: Developing system models and OFP-based simulators and conducting studies, evaluations, and early experimentation activities necessary to assess OFP interoperability - specifically, but not limited to, F-35, F-22, and F-15EX platform OFPs - with the synthetic environment, as well as compare OFPs against JSE GSI and SCARS standards. Initiate the evaluation and integration of new technologies including, but not limited to, XR/VR Goggle capability, and JSE common cockpit configuration.				
FY 2026 Plans: FY2026 is continued additional development, evaluations, and experimentation of system models and OFP-based simulators to assess OFP interoperability - specifically, to include but not limited to the addition of E-7, F-16, and Red Air platforms with the synthetic environment, as well as compare OFPs against JSE GSI and SCARS Simulator standards. Further the evaluation and integration of new technologies including, but not limited to, XR/VR Goggle capability, and JSE common cockpit configuration.				
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increased compared to FY 2025 by 19.579M due to continued development required for common cockpit configuration, battle stations, and integration with additional developed PIABs - specifically for, but not limited to, E-7, F-35, F-22, F-15EX, F-16, and Red Air platforms, beyond FY 2025 main efforts of F-35, F-22, and F-15EX.				
Title: JSE Digital Test and Training Ranges (DTTRs)		0.000	19.516	17.633
Description: Maintains and expands existing test capabilities, to include platform installation, integration, and verification and validation activities at the DTTRs and the Joint Integrated Test and Training Centers (JITTCs). Supports ongoing day-to-day digital test range operations, JSE organic development capability, along with fielded and future Developmental Test & Evaluation (DT&E) and Operational Test & Evaluation (OT&E) activities. Establishes and expands on hardware in-the-loop testing capability, future platform testing capability, and continues early experimentation efforts.				
FY 2025 Plans: FY 2025 plans include, but are not limited to, continued F-35, F-22, and Virtual Air Threat Solution (VATS) installation, integration, and verification and validation activities. Continued support for day-to-day digital test and training range operations (vision for JSE is to optimize test reality, capacity, and fidelity by using it as a closed all-domain digital range, providing a complement to open-air testing. Additionally, the ability to iteratively experiment in the JSE environment will drive hyper-refined analysis of alternative studies and better inform future acquisition decisions), JSE organic development capability (examples include, but are not limited to: Department of the Navy (DoN) - Naval Air Warfare Center Aircraft Division, AFSC Software Engineering Directorate, Air Force Materiel Command, National Air and Space Intel Center, Missile and Space Intelligence Center, Office of Naval Intelligence, 772				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0207606F <i>I Joint Simulation Environment (JSE)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Test Squadron - Digital Integrated Air Defense System), and fifth generation Operational Test & Evaluation (OT&E) activities (F-22 Raptor & F-35 Lightning). Establishes foundation for hardware in-the-loop testing capability (a simulation technique that uses real hardware to test and develop complex embedded systems in real time), future platform testing capability (examples include, but are not limited to E-7, F-16 and Red Air Platforms), and early experimentation efforts (examples include, but are not limited to early Technology Readiness Level (TRL) testing of hardware and software utility/viability with JSE, such as goggles for augmented/virtual reality, testing of different image generators, etc.). FY 2026 Plans: FY 2026 is a continuation of FY 2025 plans to include, but are not limited to, F-35, F-22, and Virtual Air Threat Solution (VATS) installation, integration, and verification and validation activities. Continued support for day-to-day digital test and training range operations (vision for JSE is to optimize test reality, capacity, and fidelity by using it as a closed all-domain digital range, providing a complement to open-air testing. Additionally, the ability to iteratively experiment in the JSE environment will drive hyper-refined analysis of alternative studies and better inform future acquisition decisions), JSE organic development capability (examples include, but are not limited to: DoN - Naval Air Warfare Center Aircraft Division, AFSC Software Directorate, Air Force Materiel Command, National Air and Space Intel Center, Missile and Space Intelligence Center, Office of Naval Intelligence, 772 Test Squadron - Digital Integrated Air Defense System) , and fifth generation Operational Test & Evaluation (OT&E) activities (F-22 Raptor & F-35 Lightning). Continues establishment and expansion for hardware in-the-loop testing capability (a simulation technique that uses real hardware to test and develop complex embedded systems in real time), future platform testing capability (examples include, but are not limited to E-7, F-16 and Red Air Platforms), and early experimentation efforts (examples include, but are not limited to early Technology Readiness Level (TRL) testing of hardware and software utility/viability with JSE, such as goggles for augmented/virtual reality, testing of different image generators, etc.). FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding decreased compared to FY 2025 by 1.833M due to the DTTR fully supporting JSE infrastructure costs internally or by receiving funding directly from platform program offices (examples include, but are not limited to, F-22, F-35, F-15EX, etc.) in support of platform specific test objectives for JSE.				
Title: JSE Core Environment Development/Integration Description: Continue the development of JSE capabilities enabling further test, integration, and training. Development activities are accomplished by leveraging Department of the Air Force (DAF) and Department of the Navy (DoN) organic software development capabilities at geographically separated locations using secure development enclaves across multiple classification levels enabling simultaneous developer access, known collectively as the JSE collaborative development environment. JSE collaborative development environment provides the foundation for secure digital collaboration, to perform development, security, and operations (DevSecOps) activities, manage development, share code, evaluate new capabilities, and distribute updated		0.000	122.986	216.455

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0207606F <i>I Joint Simulation Environment (JSE)</i>		
C. Accomplishments/Planned Programs (\$ in Millions) software versions to all connected locations. Costs include, but are not limited to, establishing equipment, personnel, processes, contracts, etc. to support JSE product development. FY 2025 Plans: FY 2025 efforts include, but are not limited to, continued build-up of organic support (DoN - Naval Air Warfare Center Aircraft Division, *AFSC Software Engineering Directorate) to develop the JSE environment for test and training, continued development of Global Reusable Interface Domain (GRID) and common services (common services include, but are not limited to: Entity ID - exists to ensure entities are not conflicting on GRID, Environment - provides the natural environment state at the location of each entity, Line of Sight - provides a feed of entities' relative geometry and whether or not the registered entity has clear line of sight to the other entity, Radio Frequency - provides a feed of RF emissions that hit the registered entity, both one-way and/or two-way, Infrared - provides a feed of IR signatures the registered IR system can see, Radar Cross Section - provides a feed of entities' radar cross sections relative to the registered entity, Denial Zones - produces a state for every entity showing what type of denial zones it is currently inside of, Laser - produces laser spots (designator entities) based on the output of laser systems, Designator - provides a feed of the designator spots the registered system can see, Endgame - calculates a running Probability of Removal (PR) of the target during all fire events and provides a final determination of removal upon a detonation event. It can calculate the day/night cycle and sun position, GRID2DIS Gateway - software product that performs a DIS 7.0 to/from GRID translation, GRID DDS - Several components use DDS in JSE, namely some Simulation Control Environment (SCE) elements. To capture and communicate with those pieces, GRID developed a DDS compatible component/example that allows these messages to be translated to/from GRID), next Generation Threat System (NGTS) virtual entities expansion (efforts include, but are not limited to: native GRID radio frequency support, new constructive models, enhanced GRID model support, new NGTS architecture, kill chain representation, new intel models: AC 16/42/45/46, AAM 36, RS04, etc.), Weapon Server Common Environment (WSCE) server integration (efforts include, but are not limited to: WSCE NGTS plugin - collateral models, JATM integration, AARGM-ER integration, LRASM integration, etc.), advanced strategic weapons, Virtual Air Threat Solution (VATS) development (efforts include, but are not limited to: Continuous Integration/Continuous Delivery (CI/CD) for the NASIC threats family 3,13, 34, 16, 43, 45, 46. New work includes A/C 51, Mixed Reality Visual System integration, and Advanced Engagement Techniques development including integration with other JSE platforms across land, sea, and space domains.). Continue to develop, test, document, and deliver aircraft threat models using the threat modeling and analysis programs. Implement and integrate the collaborative development environment at higher security levels (Impact Levels (IL) 5, 6, and 6+ - CUI up to TS/SCI/SAR), Multi-Level Security experimentation, and continued capability integration within JSE. JSE Technical Baseline maturation to support current platform fidelity improvement and new platform expansion to include F-35 30S08 and F-22 R3, Long Range Kill Chain Employment, and implementation of approaches for the NGAD Family of Systems, B-21, and F-15EX and associated weapons.		FY 2024	FY 2025	FY 2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0207606F <i>I Joint Simulation Environment (JSE)</i>		
C. Accomplishments/Planned Programs (\$ in Millions) *Air Force Sustainment Center Software Directorate (AFSC/SW) is the lead Air Force software development group for JSE-USAF. AFSC/SW organic support for JSE-USAF includes much of the same efforts mentioned above (development of GRID, WSCE, NGTS, etc.) and additionally do the following for JSE-USAF, but are not limited to: delivery of a JSE DevSecOps environment with software development and Model-Based Systems Engineering (MBSE) tools via the Crucible CUI network; to provide support to identify optimal configuration and data flow for various software development pipelines and hardware in-the-loop test/push from Crucible to the JSE collaborative development environment, explore and evaluate back connections with potential and existing JSE networks at various classification levels; initiate collaborative development environment deployment to SWED facilities, complete site survey 'homework', equipment purchases, receive and install collaborative development environment, test collaborative development environment capabilities preparatory for subsequent development activities; enhance GRID capabilities in addition to other common services in the JSE architecture; provide subject matter experts (SME) that work closely with Naval Air Warfare Center Aircraft Division to get trained and take on JSE In-a-Box (JIAB) development and software integration efforts within JIABs; provide SMEs that take on initial platform integration into JIABs and JSE supersites; as new needs are identified, plan, design, and create new services taking advantage of existing libraries of functionality (i.e. EAAGLES and Datalinks); collect software requirements, collect deficiency and discrepancy reports for relevant platforms and facilitate formal reporting via JSE governance, define tasks and shepherd approvals through JSE governance structures prior to execution; develop and improve enterprise-wide documentation, develop and maintain an MBSE model of JSE software interfaces and interactions; utilize appropriate environment to execute automated unit, functional, and system level testing on a continuous basis (at every code check) and other scheduled basis (for tests with significant runtime), as well as tie into JSE Test Strategy; provide a software integrator with responsibility to integrate Air Force developed JSE capabilities into the NAWCAD code bases (GRID, WSCE, NGTS, and other Navy-owned source code), and maintain baselines of in-progress Air Force work; in close collaboration with the Navy, enhance scalability of the software environment targeting 1-million real-time entities by FY 2027; enhance readability, maintainability, longevity, and supportability of source code within the JSE enterprise; design and execute network-based software deployment environment and processes in conjunction with the E2WG Infrastructure IPT, and begin planning and design for a Blue/Green deployment procedure. FY 2026 Plans: FY 2026 is a continuation of FY 2025 efforts to include, but are not limited to, Global Reusable Interface Domain (GRID) development, Next Generation Threat System (NGTS) virtual entities expansion, Weapon Server Common Environment (WSCE) server integration, GRID core services (weather, Infrared, Electronic Warfare, Cyber, Space, data links, communication, etc.), Virtual Air Threat Solution (VATS) development and Multi Mission Test Platform (MMTPs) refinement. Continue to develop, test, document, and deliver aircraft threat models using threat modeling and analysis. Implement and integrate the collaborative development environment at higher multi-level security within JSE (Information Levels (IL) 5, 6, and 6+). FY 2025 to FY 2026 Increase/Decrease Statement:		FY 2024	FY 2025	FY 2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0207606F I Joint Simulation Environment (JSE)							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
The 93.469M increase in FY 2026 funding compared to FY 2025 reflects the ongoing growth and increasing complexity of the program, driven by the need for expanded organic support for JSE software development. This additional funding enables programmatic support for more demanding requirements, allowing for the inclusion and physics-based representation of a wider range of blue and red capabilities, ultimately enhancing the program's ability to meet evolving mission needs.												
Accomplishments/Planned Programs Subtotals										0.000	149.502	260.667
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 06 0606017F: Requirements Analysis and Maturation	56.680	-	-	-	-	-	-	-	-	-	-	
• RDTE 07 0207142F: F-35 Squadrons	42.256	-	-	-	-	-	-	-	-	-	-	
• APAF 01 ATA000: F-35	11.619	-	-	-	-	-	-	-	-	-	-	
• RDTE 07 0207605F: Wargaming and Simulation Centers	5.000	-	-	-	-	-	-	-	-	-	-	
• APAF 05 F02200: F-22A	38.418	-	-	-	-	-	-	-	-	-	-	
• OPAF 03 834010: General Information Technology	60.845	79.535	105.610	-	105.610	-	-	-	-	-	-	
• APAF 01 JSE000: Platform-in-a-Box	-	-	46.509	-	46.509	-	-	-	-	-	-	
Remarks												
E. Acquisition Strategy												
The JSE program will leverage a combination of interagency agreements and contracts to support the continued development, experimentation, integration, testing and fielding of the core environment software and hardware infrastructure. On 14 March 2024, the JSE program entered the Planning Phase of the Software Acquisition Pathway for the procurement of both software and hardware requirements with authority to continue JSE capability development and execution of funding outlined in the acquisition decision memorandum. To support integration of additional platforms with the synthetic environment, the JSE program office will execute agreements with aircraft platform program offices and leverage existing platform contracts to support risk reduction, development, integration & test of additional platform-specific simulator capabilities. Services contracts will be leveraged to support test support operations requirements at sites intended to perform JSE-based developmental and operational test, to perform test capability development and test customer support activities. Additionally, the Air Force Program Office will continue to engage with its												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0207606F I Joint Simulation Environment (JSE)	
Navy counterparts to ensure requirements are met, as well as to maintain a shared understanding and commonality across the JSE enterprise. Execution Phase entry is estimated to occur in June 2025.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207606F / Joint Simulation Environment (JSE)				Project (Number/Name) 642407 / Joint Simulation Environment					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
JSE Platform In-A-Box (PIAB) and Pilot Vehicle Interface (PIV) Hardware Simulator Development	Various	AFLCMC/WNR : WPAFB, OH	-	0.000		7.000	Nov 2024	26.579	Nov 2025	-		26.579	-	-	-
JSE Core Environment Development/Integration	Various	AFLCMC/WNR : WPAFB, OH	-	0.000		122.986	Nov 2024	216.455	Nov 2025	-		216.455	-	-	-
Subtotal			-	0.000		129.986		243.034		-		243.034	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
JSE Digital Test and Training Ranges - Lead Development Test Organization	MIPR	AFLCMC/WNR : WPAFB, OH	-	0.000		19.516	Nov 2024	17.633	Oct 2025	-		17.633	-	-	-
Subtotal			-	0.000		19.516		17.633		-		17.633	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.000		149.502		260.667		-		260.667	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity										R-1 Program Element (Number/Name)									
3600 / 4										PE 0207606F / Joint Simulation Environment (JSE)									
										Project (Number/Name)									
										642407 / Joint Simulation Environment									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Joint Simulation Environment Development																												
Software Pathway Planning Phase																												
Software Pathway Execution Phase																												
Minimum Viable Capability Release (MVCr)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207606F / Joint Simulation Environment (JSE)	Project (Number/Name) 642407 / Joint Simulation Environment

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Joint Simulation Environment Development				
Software Pathway Planning Phase	2	2024	3	2025
Software Pathway Execution Phase	3	2025	4	2030
Minimum Viable Capability Release (MVCR)	3	2026	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0208030F <i>I War Reserve Materiel - Ammunition</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	7.897	5.226	9.865	0.000	9.865	-	-	-	-	-	-
648030: <i>Operational Weaponeering and Analysis</i>	0.000	7.897	5.226	9.865	0.000	9.865	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The AF has assumed operational support and development of the Integrated Munitions Effects Assessment (IMEA) software program from the Defense Threat Reduction Agency.

A. Mission Description and Budget Item Justification

The Operational Weaponeering and Analysis (OWA) project provides mission critical classified weapons' effectiveness analysis and Modeling and Simulation (M&S) tools in direct support of the Air Combat Command (ACC) Targeting mission. The M&S Targeting tool capabilities are designed to meet both Air Force (AF) Master Plan and DoD National Defense Strategy objectives and LOEs.

The program is integrating ACC and AFRL MAJCOM goals to establish a Digital Engineering and Transformation path to create a 'pipeline' of capabilities that will support weapon and target requirements integration from R&D to Operational Warfighting within ACC, Combatant Commands (CCMDs), and other DoD Intelligence Agencies. OWA provides mission critical National Security Software (NSS) M&S software to meet instructions and directives found in CJCSI 3160 and 3170, as well as, AFI 14-401 and JP 3-60. M&S classified software tools are operationally critical to overall mission success and weapons employment. Weapons employment is not legally possible until a complete target and weapon analysis has been completed. The classified M&S software tools are in constant development to support evolving weapon phenomenology (conventional, directed energy, high power microwave, cyber, hypersonic, etc.) within the Weapons PEO and target modeling of a wide range of multi-domain targets, which includes structural, ground mobile, ships, and more.

The Integrated Munitions Effects Analysis (IMEA) software is a classified mission critical program that provides Air Force Operational Warfighters with unique analytical capabilities. These unique capabilities are associated with Hard Deeply Buried Targets (HDBTs), Nuclear Weapons, and Weapons of Counter Mass Destruction (C-WMD) weapons employment. In addition, IMEA also analyzes national strategic sites facility defeat information with Nuclear and WMD weapons in support of Global Strike Command operational warfighter requirement. IMEA is also the software for Massive Ordinance Penetrator (MOP) and Massive Ordinance Air Blast (MOAB) lethality estimates in DoD.

The Air Force Target and Effect Software (AFTES) provides an all-domain weapon and target capability to support Advanced Target Development and Intermediate Target Development within ACC and Joint environments. This classified software creates software that is digital, agile, and open. The tool is focused on integration of capabilities from ABMS into the JADC2 environment within a single open Modelling and Simulation (M&S) Engagement Framework to provide capabilities to the tactical edge. In addition, AFTES will draw it requirements from the ACC Agile Combat Employment (ACE) LOE to meet objectives laid out by the CSAF.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0208030F <i>I War Reserve Materiel - Ammunition</i>

In addition to operational support, IMEA and AFTES provides analytical reachback for both operational and weapon acquisition communities. OWA also aligns with Air Force Research Laboratory (AFRL) and Defense Threat Reduction Agency (DTRA) Research and Development (R&D) weapon lethality and effectiveness missions to create an R&D pipeline of capabilities all maintained in a single M&S software framework which allows the software to be easily developed, deployed, and maintained within the OWA Division.

The AF assumed operational support and development of the IMEA program from the Defense Threat Reduction Agency in FY22. DTRA will continue to support Air Force with basic R&D research of new capabilities associated with HDBT, Nuclear, and WMD as defined by Memorandum of Agreement (MOA) between DTRA and the AF. OWA has become the operational transition partner for DTRA and AFRL to integrate and field all weapon and target R&D technology to AF and other Joint Environments.

This program leverages Digital acquisition tenets of open, agile, and digital. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

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 0605829F, 0605831F, 0605833F, or 0605898F. In FY24 \$.000 thousand was expended for civilian pay expenses in this program element, and in FY25 \$.000 thousand is forecasted for civilian pay expenses in this program element.

The FY 2026 request was reduced by \$545 thousand for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>
Previous President's Budget	8.175	5.226	10.443	0.000	10.443
Current President's Budget	7.897	5.226	9.865	0.000	9.865
Total Adjustments	-0.278	0.000	-0.578	0.000	-0.578
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.278	0.000			
• Other Adjustments	0.000	0.000	-0.578	0.000	-0.578

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0208030F I War Reserve Materiel - Ammunition		
Change Summary Explanation No significant changes.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Operational Weaponeering and Analysis Description: The Operational Weaponeering and Analysis (OWA) provides weapons' effectiveness data and classified software Modeling and Simulation (M&S) tools to support the Air Force (AF) Requirements Process, Combatant Commands (COCOMs), and Major Commands (MAJCOMS). FY 2025 Plans: AFCER will be enhanced in FY25 with new weapon methodology from our digital pipeline coordinated with AFRL and DTRA mission partners for ultimate integration with AFTES and IMEA programs. As noted, AFCER is being developed as part of the AFTES ecosystem of lethality and target capabilities to be used by ABMS or even JADC2. OWA will continue to expand our AF Weapon and Target (WEPTAR) Operational Users Working Group to provide continuous software reviews supporting our accreditation and validation efforts. The goal is to push R&D capabilities forward by shifting operational review left in the agile development cycle. This allows for 'Speed of Need' to occur within AF operational communities. Develop and accredit the DEVSECOPS pipeline tool stack supporting Agile based Continuous Integration and Continuous Development (CI/CD) pipeline and conduct quarterly AFTES and IMEA Technical Product Previews (TPPs) of evolving phenomenology models and operational capabilities. Program impacts will be briefed to WEPTAR Operational Community and MAJCOM stakeholders. Will continue focus on all domain development to include kinetic, directed energy, and cyber in FY25 to create KE/DE synergistic effects and cyber evaluations of targets. Future effort on focused kinetic weapon development to support hypersonic development within the multi-domain of capabilities. Limited weapon data, target data and methodology will be hosted in AFCER. Verification, Validation and Accreditation (VV&A) and Independent Verification and Validation (IV&V) efforts will also be a future focus. Enhancement of Agile pipeline development processes will be supported by enhancing unit, integration, functional, and system level testing. Develop, validate, and accredit improved computer vulnerability and weapons effectiveness models in support of warfighter requirements; will continue the integration of Verification, Validation and Accreditation (VV&A) and Independent Verification and Validation (IV&V) efforts into Agile product development processes.		7.897	5.226	9.865

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0208030F <i>I War Reserve Materiel - Ammunition</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
N/A FY 2026 Plans: AFCER will be continue enhancement in FY26 with weapon methodology from our digital pipeline coordinated with AFRL and DTRA mission partners for ultimate integration with AFTES and IMEA programs. As noted, AFCER is being developed as part of the AFTES ecosystem of lethality and target capabilities to be used by ABMS or even JADC2. OWA will continue to expand our AF Weapon and Target (WEPTAR) Operational Users Working Group to provide continuous software reviews supporting our accreditation and validation efforts. The goal is to push R&D capabilities forward by shifting operational review left in the agile development cycle. This allows for 'Speed of Need' to occur within AF operational communities. Develop and accredit the DEVSECOPS pipeline tool stack supporting Agile based Continuous Integration and Continuous Development (CI/CD) pipeline and conduct quarterly AFTES and IMEA Technical Product Previews (TPPs) of evolving phenomenology models and operational capabilities. Program impacts will be briefed to WEPTAR Operational Community and MAJCOM stakeholders. Will continue focus on all domain development to include kinetic, directed energy, and cyber in FY26 to create KE/DE synergistic effects and cyber evaluations of targets. Future effort on focused kinetic weapon development to support hypersonic development within the multi-domain of capabilities. Limited weapon data, target data and methodology will be hosted in AFCER. Verification, Validation and Accreditation (VV&A) and Independent Verification and Validation (IV&V) efforts will also be a future focus. Enhancement of Agile pipeline development processes will be supported by enhancing unit, integration, functional, and system level testing. Develop, validate, and accredit improved computer vulnerability and weapons effectiveness models in support of warfighter requirements; will continue the integration of Verification, Validation and Accreditation (VV&A) and Independent Verification and Validation (IV&V) efforts into Agile product development processes. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased because the AF has ramped up its operational support and development of the Integrated Munitions Effects Assessment (IMEA) software program since assuming that responsibility from the Defense Threat Reduction Agency (DTRA).				
Accomplishments/Planned Programs Subtotals		7.897	5.226	9.865

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0208030F <i>I War Reserve Materiel - Ammunition</i>	
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks N/A		
E. Acquisition Strategy Performance-based contracts are primarily used for this support. IMEA and AFTES maximize the use of competitive awards and uses various contract types, employs large and small contractors, and is focused to achieve agency socio-economic goals and incorporate DoD acquisition reform initiatives. Both AFTES and IMEA are paralleling AF Digital Engineering contracting effort to add Agile capabilities into performance contracts. IMEA and AFTES use physics based modeling requiring specialized methodology development unique to specific weapon capabilities. The Operational and Analysis (OWA) has identified multiple sources of software development include both commercial and defense working capital. OWA identified multiple contracts to support agile and digitally focused software development efforts using preexisting indefinite delivery/indefinite quantity contracts (IDIQs) including the Eglin Wide Area Acquisition Contract (EWAAC), General Services Administration (GSA) OSAIS, and Defense Threat Reduction Agency (DTRA) Tools contract.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force													Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)					
3600 / 4					PE 0208030F / War Reserve Materiel - Ammunition					648030 / Operational Weaponeering and Analysis					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Integrated Munitions Effectiveness Assessment (IMEA)	C/CPFF	ARA Inc. : Raleigh, NC	-	5.100	Jan 2024	2.000	Jan 2025	4.925	Jan 2026	-		4.925	-	-	-
Air Force Targeting and Effects Software (AFTES)	C/CPFF	Multiple : Fort Walton Beach, FL	-	2.200	Jul 2024	2.351	Apr 2025	3.965	Apr 2026	-		3.965	-	-	-
Subtotal			-	7.300		4.351		8.890		-		8.890	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
AA&S Support	RO	AFLCMC/EBRW : Eglin AFB, FL	-	0.472	Jun 2024	0.750	Jun 2025	0.615	Jun 2026	-		0.615	-	-	-
Program Material Support	RO	AFLCMC/EBRW : Eglin AFB, FL	-	0.075	May 2024	0.075	May 2025	0.300	May 2026	-		0.300	-	-	-
Travel for Program Management	RO	AFLCMC/EBRW : Eglin AFB, FL	-	0.050	Oct 2023	0.050	Oct 2024	0.060	Oct 2025	-		0.060	-	-	-
Subtotal			-	0.597		0.875		0.975		-		0.975	-	-	N/A
			Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract				
Project Cost Totals			-	7.897	5.226	9.865	-	9.865	-	-	N/A				
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0208030F / War Reserve Materiel - A mmunition					Project (Number/Name) 648030 / Operational Weaponneering and Analysis									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Integrated Munitions Effects Assessment (IMEA)																												
Integrated Munitions Effects Assessment (IMEA)																												
Air Force Targeting and Effects Software (AFTES)																												
Air Force Targeting and Effects Software (AFTES)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0208030F / War Reserve Materiel - A mmunition	Project (Number/Name) 648030 / Operational Weaponeeering and Analysis

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Integrated Munitions Effects Assessment (IMEA)				
Integrated Munitions Effects Assessment (IMEA)	1	2024	4	2030
Air Force Targeting and Effects Software (AFTES)				
Air Force Targeting and Effects Software (AFTES)	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0303010F / AF ISR Digital Infrastructure							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	18.733	24.817	0.000	24.817	-	-	-	-	-	-
640018: <i>Air Force ISR Digital Infrastructure</i>	0.000	0.000	0.000	24.817	0.000	24.817	-	-	-	-	-	-
640141: <i>Advanced Battle Management System (ABMS)</i>	0.000	0.000	18.733	0.000	0.000	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

New Program Element FY25

Congressional technical adjustment transferred 18.733M from CAIS PE 0207431F in RDT&E for FY25.

The mission of Air Force (AF) Intelligence Surveillance Reconnaissance (ISR) Digital Infrastructure (DI) (AF ISR DI) is to provide the secure commercial cloud-based infrastructure, platform and data services, to be scaled with tenant funding to meet requirements for Sensitive Compartmented Information (SCI) and ISR cloud, platform and data services, globally, including at the edge with a focus on Artificial Intelligence and Machine Learning (AI/AL). AF ISR DI provides enterprise services and a secure development-security-operations (DevSecOps) platform, enabling developers to focus on delivery of mission capabilities as software applications that can be continually updated, dramatically accelerating the time to field and lowering the total ownership cost to the Department of Air Force (DAF) and can scale on demand to meet operational needs to shorten and improve Long Range Kill Chain. AF ISR DI provides the foundation for all DAF SCI cloud-based capabilities. The portfolio ensures compliance with the Intelligence Community (IC) requirements for security, architecture, data safeguarding and sharing, and integrated defense to protect IC data. AF ISR DI partners with Advanced Battle Management System Digital Infrastructure (ABMS DI, executed under PE 0604003F) to provide a consistent set of capabilities, services and customer experience across all classification levels, and meets DAF requirements while ensuring compliance with Director of National Intelligence (DNI)

requirements and minimizing duplication of effort. The remaining Funding is Re-aligned in FY26 to AF ISR DI PE 0303010F. AF ISR has two primary thrusts SCI Cloud Services and Cybersecurity Automation and Ops. SCI Cloud services -Leveraging IC-governed commercial cloud enterprise capability, provides a common and robust foundation for agile ISR and C2 operations requiring SCI data, across the globe. Invests in engineering, Security and architectural expertise to provide a fully managed, redundant and secure development, security and operations environment to rapidly develop and deploy mission applications. Provides identity access management, security and secure commercial cloud services, as well as customer service and support to tenants, who fund their use.

FY 2026 request for AF ISR DI includes \$24,817 thousand of discretionary and \$2,200 thousand of mandatory (reconciliation) for a total of \$27,017 thousand. The mandatory funding is erroneously programmed to AF ISR DI project. Funding will be properly realigned to the intended Special Access Program (SAP) project in FY26. Funding fulfills intelligence support requirements to support Golden Dome of America. Further information for this reconciliation request is provided in Section 20003 of the Reconciliation Exhibit.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0303010F I AF ISR Digital Infrastructure			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	18.733	24.817	0.000	24.817
Total Adjustments	0.000	18.733	24.817	0.000	24.817
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	18.733	24.817	0.000	24.817

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure				Project (Number/Name) 640018 / Air Force ISR Digital Infrastructure			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640018: Air Force ISR Digital Infrastructure	0.000	0.000	0.000	24.817	0.000	24.817	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

New Program Element FY25

Congressional technical adjustment transferred 18.733M from CAIS PE 0207431F in RDT&E for FY25.

The mission of Air Force (AF) Intelligence Surveillance Reconnaissance (ISR) Digital Infrastructure (DI) (AF ISR DI) is to provide the secure commercial cloud-based infrastructure, platform and data services, to be scaled with tenant funding to meet requirements for Sensitive Compartmented Information (SCI) and ISR cloud, platform and data services, globally, including at the edge with a focus on Artificial Intelligence and Machine Learning (AI/AL).

AF ISR DI provides enterprise services and a secure development-security-operations (DevSecOps) platform, enabling developers to focus on delivery of mission capabilities as software applications that can be continually updated, dramatically accelerating the time to field and lowering the total ownership cost to the Department of Air Force (DAF) and can scale on demand to meet operational needs to shorten and improve Long Range Kill Chain.

AF ISR DI provides the foundation for all DAF SCI cloud-based capabilities. The portfolio ensures compliance with the Intelligence Community (IC) requirements for security, architecture, data safeguarding and sharing, and integrated defense to protect IC data.

AF ISR DI partners with Advanced Battle Management System Digital Infrastructure (ABMS DI, executed under PE 0604003F) to provide a consistent set of capabilities, services and customer experience across all classification levels, and meets DAF requirements while ensuring compliance with Director of National Intelligence (DNI) requirements and minimizing duplication of effort. The remaining Funding is Re-aligned in FY26 to AF ISR DI PE 0303010F.

AF ISR has two primary thrusts SCI Cloud Services and Cybersecurity Automation and Ops.

SCI Cloud services -Leveraging IC-governed commercial cloud enterprise capability, provides a common and robust foundation for agile ISR and C2 operations requiring SCI data, across the globe. Invests in engineering, security and architectural expertise to provide a fully managed, redundant and secure development, security and operations environment to rapidly develop and deploy mission applications. Provides identity access management, security and secure commercial cloud services, as well as customer service and support to tenants, who fund their use.

AF ISR DI will invest in the development of engineering, security and architectural expertise to provide a fully managed, redundant and secure development, security and operations environment to rapidly develop and deploy mission applications. Invest in identity access management, security and secure commercial cloud services, as well as customer service and support to tenants.

AF ISR DI acquisition strategy incorporates Competitive Method w/multi-vendor contract. The contract strategy is Cost Plus Fixed Price.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure	Project (Number/Name) 640018 / Air Force ISR Digital Infrastructure	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Title: SCI Cloud Service Description: SCI Cloud services -Leveraging IC-governed commercial cloud enterprise capability, provides a common and robust foundation for agile ISR and C2 operations requiring SCI data, across the globe. Invests in engineering, security and architectural expertise to provide a fully managed, redundant and secure development, security and operations environment to rapidly develop and deploy mission applications. Provides identity access management, security and secure commercial cloud services, as well as customer service and support to tenants, who fund their use. FY 2026 Plans: SCI Cloud services -Leveraging IC-governed commercial cloud enterprise capability, provides a common and robust foundation for agile ISR and C2 operations requiring SCI data, across the globe. Invests in engineering, security and architectural expertise to provide a fully managed, redundant and secure development, security and operations environment to rapidly develop and deploy mission applications. Provides identity access management, security and secure commercial cloud services, as well as customer service and support to tenants, who fund their use. FY 2025 to FY 2026 Increase/Decrease Statement: New PE funding transferred from Combat air Intelligence Systems Activities (CAIS)		-	-
Accomplishments/Planned Programs Subtotals		-	24.817
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
AF ISR DI acquisition strategy incorporates Competitive Method w/Multi-vendor contract. Contract strategy is Cost Plus and Fixed Price.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure				Project (Number/Name) 640018 / Air Force ISR Digital Infrastructure					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
1	C/Various	CACI, Inc : Chantilly, VA	-	-		0.000	Jun 2025	12.505	Oct 2025	-		12.505	-	-	-
2	C/CPFF	Booz Allen Hamilton : McLean, VA	-	-		0.000	Jun 2025	8.261	Oct 2025	-		8.261	-	-	-
3	C/Various	Northrop Grumman : McLean, VA	-	-		0.000	Jun 2025	2.051	Oct 2025	-		2.051	-	-	-
4	C/CPFF	ICR Inc. : Aurora, CO	-	-		0.000	Jun 2025	1.000	Oct 2025	-		1.000	-	-	-
Subtotal			-	-		0.000		23.817		-		23.817	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Not specified.	C/CPAF	MIT : Lexington, MA	-	-		-		1.000	Nov 2025	-		1.000	-	-	-
Subtotal			-	-		-		1.000		-		1.000	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		0.000		24.817		-		24.817	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0303010F / AF ISR Digital Infrastructure					640018 / Air Force ISR Digital Infrastructure			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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																												
1																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure	Project (Number/Name) 640018 / Air Force ISR Digital Infrastructure	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
1				
2	1	2026	4	2027
1	2	2026	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure				Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
640141: Advanced Battle Management System (ABMS)	0.000	0.000	18.733	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

New Program Element FY25

Congressional technical adjustment transferred 18.733M from CAIS PE 0207431F in RDT&E for FY25.

The mission of Air Force (AF) Intelligence Surveillance Reconnaissance (ISR) Digital Infrastructure (DI) (AF ISR DI) is to provide the secure commercial cloud-based infrastructure, platform and data services, to be scaled with tenant funding to meet requirements for Sensitive Compartmented Information (SCI) and ISR cloud, platform and data services, globally, including at the edge with a focus on Artificial Intelligence and Machine Learning (AI/AL). AF ISR DI provides enterprise services and a secure development-security-operations (DevSecOps) platform, enabling developers to focus on delivery of mission capabilities as software applications that can be continually updated, dramatically accelerating the time to field and lowering the total ownership cost to the Department of Air Force (DAF) and can scale on demand to meet operational needs to shorten and improve Long Range Kill Chain. AF ISR DI provides the foundation for all DAF SCI cloud-based capabilities. The portfolio ensures compliance with the Intelligence Community (IC) requirements for security, architecture, data safeguarding and sharing, and integrated defense to protect IC data. AF ISR DI partners with Advanced Battle Management System Digital Infrastructure (ABMS DI, executed under PE 0604003F) to provide a consistent set of capabilities, services and customer experience across all classification levels, and meets DAF requirements while ensuring compliance with Director of National Intelligence (DNI)

requirements and minimizing duplication of effort. The remaining Funding is Re-aligned in FY26 to AF ISR DI PE 0303010F. AF ISR has two primary thrusts SCI Cloud Services and Cybersecurity Automation and Ops.

SCI Cloud services -Leveraging IC-governed commercial cloud enterprise capability, provides a common and robust foundation for agile ISR and C2 operations requiring SCI data, across the globe. Invests in engineering, security and architectural expertise to provide a fully managed, redundant and secure development, security and operations environment to rapidly develop and deploy mission applications. Provides identity access management, security and secure commercial cloud services, as well as customer service and support to tenants, who fund their use.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: SCI Cloud Service	-	18.733	-
Description: SCI Cloud services -Leveraging IC-governed commercial cloud enterprise capability, provides a common and robust foundation for agile ISR and C2 operations requiring SCI data, across the globe. Invests in engineering, security and architectural expertise to provide a fully managed, redundant and secure development, security and operations environment to rapidly develop and deploy mission applications. Provides identity access management, security and secure commercial cloud services, as well as customer service and support to tenants, who fund their use.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure	Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
<i>FY 2025 Plans:</i> SCI Cloud services - Leveraging IC-governed commercial cloud enterprise capability, provides a portion of the common and robust foundation for agile ISR and C2 operations requiring SCI data, across the globe, in partnership with ABMS DI. FY25 efforts focus on contractor Engineering for Security Defense, Platform, Infrastructure and DevSecOps Engineering.			
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding is aligned in BPAC 640018 in FY26			
Accomplishments/Planned Programs Subtotals		-	18.733
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
Funding in this BPAC is transferred to BPAC 640018 in FY26.			
D. Acquisition Strategy			
AF ISR DI acquisition strategy incorporates Competitive Method w/Multi-vendor contract. Contract strategy is Cost Plus and Fixed Price.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure						Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
1	C/Various	CACI, Inc : Chantilly, VA	-	-		10.989	Jun 2025	-		-		-	-	-	-
2	C/CPFF	Booz Allen Hamilton : McLean, VA	-	-		4.848	Jun 2025	-		-		-	-	-	-
3	C/Various	Northrop Grumman : McLean, VA	-	-		2.896	Jun 2025	-		-		-	-	-	-
Subtotal			-	-		18.733		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		18.733		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0303010F / AF ISR Digital Infrastructure					640141 / Advanced Battle Management System (ABMS)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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																												
1,2,3																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0303010F / AF ISR Digital Infrastructure	Project (Number/Name) 640141 / Advanced Battle Management System (ABMS)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
1				
1,2,3	3	2025	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0305236F I <i>Common Data Link Executive Agent (CDL EA)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	25.157	33.349	32.511	0.000	32.511	-	-	-	-	-	-
641334: <i>Common Data Link (CDL)</i>	0.000	25.157	33.349	32.511	0.000	32.511	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Common Data Link Executive Agent (CDL EA) provides the DoD standard for interoperable, multi-service, multi-agency, Intelligence, Surveillance, and Reconnaissance (ISR) datalinks for 15,000 DoD manned/unmanned airborne and ground terminals. The project advances CDL through partnership with each of the Services, NSA, JITC, FFRDCs, and Industry. As the DoD CDL EA, the Air Force is responsible for cross-service application of CDL RDT&E Military Intelligence Program (MIP) funds facilitating compliance to DoD mandates. The CDL EA develops, modifies, distributes, and maintains specifications for the CDL waveform family; ensuring design configuration control, commonality, and interoperability among ISR platforms. The CDL EA also funds and supports cross-Service teams that manage development, maturation, and migration of CDL technologies.

CDL EA enables compliance with OSD mandates to effectively utilize spectrum, use approved cryptographic equipment, and provide direct support to current operations. CDL is a vital link in DoD's existing and emerging communication architectures, providing flexibility to accommodate Command and Control (C2) data and myriad types of Signals Intelligence (SIGINT), Geospatial Intelligence (GEOINT), and Full-Motion Video (FMV) data. The CDL specifications permit interoperable operations of current and future ISR assets worldwide by providing sensor data directly via point-to-point and air-to-air or compatible satellite broadcast links to ground sites, surface ships, airborne platforms, and dismounted users to support Combined Joint All-Domain Command and Control (CJADC2) warfare. The CDL EA effort advances top-line CDL capabilities while maintaining compatibility with fielded U.S. and Allied terminals

CDL EA's research and development activities support a broad array of tactical (including tactical data links (TDL) and high capacity backbone (HCB)), operational, and strategic ISR users. High priority investment activities support and include: achieving higher data rates, open architecture development, multi-access and multi-node network management, cryptographic modernization, advancements needed to operate in contested environments, terminal design enhancements, and operations in other spectral bands for spectrum efficiency. Activities also include studies and analysis to support current and future requirements documentation, program planning and execution. CDL prototype terminal designs provide for future technology insertion and reduce non-recurring engineering and life-cycle costs to the user.

In addition, the Cryptographic Core Modernization (CCM) thrust enables CDL to develop a miniaturized gigabit rate crypto devices capable of securing CDL data through improving Transmission Security (TRANSEC) capabilities. The miniaturized crypto device will allow faster throughput while reducing Size, Weight, and Power (SWaP) requirements.

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,

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0305236F I Common Data Link Executive Agent (CDL EA)				
0606398F. In FY 2024 0.330M was expended for civilian pay expenses in this program element, and in FY 2025 0.358M is forecasted for civilian pay expenses in this program element.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		25.157	33.349	34.178	0.000	34.178
Current President's Budget		25.157	33.349	32.511	0.000	32.511
Total Adjustments		0.000	0.000	-1.667	0.000	-1.667
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-1.667	0.000	-1.667
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Common Data Link (CDL) Technology Advancement				11.757	15.585	15.690
Description: CDL evolutionary concept development, exploratory prototyping, advanced technology demonstrations, and studies of emerging technologies and capability gaps.						
FY 2025 Plans:						
- Continue to research and evaluate technology developments for enhancing the Common Data Link (CDL) enterprise networking architecture, to include network management devices, applications and advanced algorithms.						
- Continue to research, evaluate and develop more spectrally efficient waveforms to support Combatant Command demand for higher bandwidth transmission and improved jam resistant capabilities.						
- Continue to research, evaluate and develop improvements to CDL waveforms to lower probability of detection and interception to support Combatant Command demand for improved covertness of ground and airborne forces.						
- Continue to assess the application of CDL waveforms in proliferated Low Earth Orbit (pLEO) implementations with different pLEO vendors						
- Continue development of enhanced, CDL-based Intelligence, Surveillance and Reconnaissance (ISR) communication capabilities across multiple platforms and echelons among U.S and allied partners.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0305236F <i>I Common Data Link Executive Agent (CDL EA)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Continue development of a collaborative CDL modeling and simulation environment using Navy Research Lab's Extendable Mobile Ad-Hoc Network Emulator (EMANE) framework for CDL performance analysis and waveform advancements. The CDL EMANE environment will be the baseline for joint Service and vendor collaboration as the community modernizes CDL for the future fight. - Continue waveform performance analysis of current CDL capabilities and future enhancements on their ability to achieve mission success in National Defense Strategy (NDS) derived scenarios to focus future CDL modernization efforts to update the CDL specifications. - Continue development and maturation of new Low Probability of Intercept/Low Probability of Detection/Anti-Jam (LPI/LPD/AJ) waveform capability to support operations in the contested battlespace. - Continue to research, evaluate and develop an Open Systems Architecture to improve CDL enterprise interoperability and terminal design flexibility. - Continue the evaluation, analysis, and study of multi-beam antenna technology to further improve CDL networking and LPI/LPD/AJ capabilities. - Continue prototyping and advanced technology demonstrations in support of emerging communication backbone architecture, including high capacity backbone (HCB) development, across multi-domains. - Continue requirements and design improvements for more robust BE-CDL support to smaller Group 1 Unmanned Aerial Systems (UAS). - Continue exploratory prototyping efforts and advanced technology demonstrations in support of emerging communication backbone architecture, including HCB development, across air, space and terrestrial layers, to include agile high capacity data transport, assured communications and multi-mode access network. - Continue to research and evaluate developing Artificial Intelligence (AI) technologies to support faster correlation and fusion of ISR and CDL network management processes. - Continue to research and evaluate developing technologies to minimize the National Security Agency (NSA) required certification requirements for terminals while standardizing Communications Security (COMSEC) and Transmission Security (TRANSEC) implementation. FY 2026 Plans: - Will continue to research and evaluate technology developments for enhancing the CDL enterprise networking architecture, to include network management devices, applications and advanced algorithms. - Will continue to research, evaluate and develop more spectrally efficient waveforms to support Combatant Command demand for higher bandwidth transmission and improved jam resistant capabilities. - Will continue to assess the application of CDL waveforms in proliferated Low Earth Orbit (pLEO) implementations with different pLEO vendors				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0305236F / <i>Common Data Link Executive Agent (CDL EA)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Will continue to research, evaluate and develop improvements to CDL waveforms to lower probability of detection and interception to support Combatant Command demand for improved covertness of ground and airborne forces. - Will continue development of enhanced, CDL-based Intelligence, Surveillance and Reconnaissance (ISR) communication capabilities across multiple platforms and echelons among U.S and allied partners. - Will continue development of a collaborative CDL modeling and simulation environment using Navy Research Lab's Extendable Mobile Ad-Hoc Network Emulator (EMANE) framework for CDL performance analysis and waveform advancements. The CDL EMANE environment will be the baseline for joint Service and vendor collaboration as the community modernizes CDL for the future fight. - Will continue waveform performance analysis of current CDL capabilities and future enhancements on their ability to achieve mission success in National Defense Strategy (NDS) derived scenarios to focus future CDL modernization efforts to update the CDL specifications. - Will continue analysis and study of CDL networking and Low Probability of Interception / Low Probability of Detection / Anti-Jam (LPI/LPD/AJ) capabilities in future contested battlespace. - Will continue to research, evaluate and develop an Open Systems Architecture to improve CDL enterprise interoperability and terminal design flexibility. - Will continue evaluation, analysis, and study of multi-beam antenna technology to further improve CDL networking and low probability of intercept/low probability of detection/anti-jam (LPI/LPD/AJ) capabilities. - Will continue prototyping and advanced technology demonstrations in support of emerging communication backbone architecture, including high capacity backbone (HCB) development, across multi-domains. - Will continue requirements and design improvements for more robust BE-CDL support to smaller Group 1 UAS. - Will continue exploratory prototyping efforts and advanced technology demonstrations in support of emerging communication backbone architecture, including HCB development, across air, space and terrestrial layers, to include agile high capacity data transport, assured communications and multi-mode access network. - Will continue to research and evaluate developing Artificial Intelligence (AI) technologies to support faster correlation and fusion of ISR and CDL network management processes. - Will continue to research and evaluate developing technologies to minimize the National Security Agency (NSA) required certification requirements for terminals while standardizing Communications Security (COMSEC) and Transmission Security (TRANSEC) implementation. FY 2025 to FY 2026 Increase/Decrease Statement: The increase will support validation efforts for the new networking waveform in FY 2026. This will include testing and implementation by a second CDL vendor.				
Title: Common Data Link (CDL) Specification Development, Validation, Test and Maintenance		8.300	10.998	9.542

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0305236F <i>I Common Data Link Executive Agent (CDL EA)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: Systems engineering lifecycle for CDL and NATO STANAG 7085 specification development: requirement decomposition, specification development (modeling, maturation, documentation), specification validation (and associated component prototyping), testing, configuration management, and process maintenance.				
FY 2025 Plans: - Continue development of vendor and government owned reference implementation of the new LPI/LPD/AJ waveform to perform future test and validation to ensure the CDL specification is accurate and can be built by multiple vendors in the future, therefore keeping the market space open. - Continue evaluation, analysis and study of network management devices, network and waveform configuration tool development; transition improved technologies into CDL Specification baseline that increases data sharing across Service-specific networks. - Continue development and advancement of dynamical control algorithms to enable terminals to more efficiently use CDL spectrum. This work is also to validate the CDL Common Control Interface. - Continue to work with CDL industry partners and DoD Services and Agencies to document, validate, and test common terminal control interfaces through use of commercially recognized standards. - Continue configuration control of the CDL architecture, standards, specifications and reference artifacts to support open interoperability and open competition. - Continue development of JITC CDL test equipment capable of compliance testing to the latest validated version of CDL specifications and enhance DoD-wide interoperability testing.				
FY 2026 Plans: - Will continue development of vendor and government owned reference implementation of the new LPI/LPD/AJ waveform to perform future test and validation to ensure the CDL specification is accurate and can be built by multiple vendors in the future, therefore keeping the market space open. - Will continue evaluation, analysis and study of network management devices, network and waveform configuration tool development; transition improved technologies into CDL Specification baseline that increases data sharing across Service-specific networks. - Will continue development and advancement of dynamical control algorithms to enable terminals to more efficiently use CDL spectrum. This work is also to validate the CDL Common Control Interface. - Will continue to work with CDL industry partners and DoD Services and Agencies to document, validate, and test common terminal control interfaces through use of commercially recognized standards. - Will continue configuration control of the CDL architecture, standards, specifications and reference artifacts to support open interoperability and open competition.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0305236F <i>I Common Data Link Executive Agent (CDL EA)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Will continue development of JITC CDL test equipment capable of compliance testing to the latest, validated version of CDL specifications and enhance DoD-wide interoperability testing. FY 2025 to FY 2026 Increase/Decrease Statement: The decrease from FY25 to FY26 significantly reduces the critical engineering support provided by MTRE subject matter experts in RF communications and software defined radios across all Services and will slow performance enhancements and advancements across all Common Data Link waveforms. Additionally, the cuts will also decrease operational testing and flight evaluation of new and emerging technologies conducted at the Joint Systems Integration Lab (JSIL).				
Title: Common Data Link (CDL) Cryptographic Modernization Description: Phased development effort to modernize CDL Communications Security (COMSEC) and Transmission Security (TRANSEC) devices and standards to maximize performance and reduce Size Weight and Power (SWaP) requirements while supporting interoperability, commonality, modularity, portability, remote management, multi-level security and release to Allied and Coalition partners. FY 2025 Plans: - Continue to research and evaluate developing technologies to minimize the National Security Agency (NSA) required certification requirements for terminals while standardizing Communications Security (COMSEC) implementation. - Continue incorporating data Transmission Security (TRANSEC) support, data handling capabilities, and new cryptographic algorithms into all cryptographic core form factors (i.e., Nano, Mini and Mega). - Continue to upgrade Nano and Mini crypto cores with customer requested Engineering Change Proposals (ECP) and complete Security Validation Testing (SVT) and subsequent National Security Agency (NSA) Cyber Security Certification. - Continue to ensure CDL family of waveforms meet developing Transmission Security (TRANSEC) requirements as outlined by the Office of Secretary of Defense Chief Information Office (DoD CIO). - Continues development, prototyping and First Implementer integration testing of multi-channel, gigabit data rate cryptographic cores (Mega). - Continue development, prototyping, and First Implementer integration and testing on a Type 1 cryptographic solution (Pico) for Group 1 Unmanned Aerial Systems (UASs) that provides algorithmic interoperability, using CCM cryptography, for Full Motion Video (FMV) datalinks with existing manned and unmanned ISR platforms and ground stations. - Continue development and design of common End Cryptographic Units (ECUs) for use with medium- and large-sized ISR terminals. - Continue development of a reference ECU using the Mega CCM crypto core for hardware/software and interface documentation validation.		5.100	6.766	7.279

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0305236F <i>I Common Data Link Executive Agent (CDL EA)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Continue the advancement of standardized CCM interface specifications for modularity to ease future systems upgrades, facilitate competitive terminal procurements, promote innovation, and maintain backward compatibility with existing Intelligence, Surveillance and Reconnaissance (ISR) systems. - Continue development, advancement and instantiation of CCM algorithms to support FIVE EYE (FVEY), North Atlantic Treaty Organization (NATO), and Coalition operations for secure encrypted and interoperable ISR data exchange among allied and partner nations. - Continue participating in FVEY, NATO and Coalition forums, testing venues and exercises (including live-fly) to ensure secure encrypted and interoperable ISR data exchange among allied and partner nations. FY 2026 Plans: - Will continue to research and evaluate developing technologies to minimize the National Security Agency (NSA) required certification requirements for terminals while standardizing Communications Security (COMSEC) implementation. - Will continue incorporating data Transmission Security (TRANSEC) support, data handling capabilities, and new cryptographic algorithms into all cryptographic core form factors (i.e., Nano, Mini and Mega). - Will continue to upgrade Nano and Mini crypto cores with customer requested Engineering Change Proposals (ECP) and complete Security Validation Testing (SVT) and subsequent National Security Agency (NSA) Cyber Security Certification. - Will continue to ensure CDL family of waveforms meet developing Transmission Security (TRANSEC) requirements as outlined by the Office of Secretary of Defense Chief Information Officer (DoD CIO). - Will complete development, prototyping, integration testing and Cyber Security Certification of multi-channel, gigabit data rate (Mega) cryptographic cores and move into full rate production and delivery to ISR platforms. - Will continue development, prototyping, and First Implementer integration and testing on a Type 1 cryptographic solution (Pico) for Group 1 Unmanned Aerial Systems (UASs) that provides algorithmic interoperability, using CCM cryptography, for Full Motion Video (FMV) datalinks with existing manned and unmanned ISR platforms and ground stations. - Will continue development and design of common End Cryptographic Units (ECUs) for use with medium- and large-sized ISR terminals. - Will continue development of a reference ECU using the Mega CCM crypto core for hardware/software and interface documentation validation. - Will continue the advancement of standardized CCM interface specifications for modularity to ease future systems upgrades, facilitate competitive terminal procurements, promote innovation, and maintain backward compatibility with existing Intelligence, Surveillance and Reconnaissance (ISR) systems.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0305236F I <i>Common Data Link Executive Agent (CDL EA)</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Will continue development, advancement and instantiation of CCM algorithms to support FIVE EYE (FVEY), North Atlantic Treaty Organization (NATO), and Coalition operations for secure encrypted and interoperable ISR data exchange among allied and partner nations. - Will continue participating in FVEY, NATO and Coalition forums, testing venues and exercises (including live-fly) to ensure secure encrypted and interoperable ISR data exchange among allied and partner nations. - Will continue developing software to ensure programming requirements meet National Security Administration (NSA) Security Evaluation Requirements Document (SERD) 2.0 which requires using/upgrading to memory safe software. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 funds increased to resolve delays in NSA Crypto certification. NSA process delays and changes to respond to new threat assessments is the single most critical factor in delaying fielding of new radios and capabilities. Additional resources are already proving beneficial in assisting industry in leveraging the CDL CCM design to meet certification requirements. We will extend that effort.				
Accomplishments/Planned Programs Subtotals		25.157	33.349	32.511
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy The Air Force serves as the DoD Common Data Link Executive Agent, with support from each Service's designated CDL lead and AFLCMC/HNA (Airborne Network Division). The CDL EA develops interoperable ISR data links mandated for use by DoD CIO policy. Once CDL technology development matures and a specification is published, services are responsible for CDL compliant platform and terminal procurement; National Security Agency (NSA) and Joint Interoperability Test Command (JITC) ensure compliance certifications; integration; and installation. Acquisition strategy varies by Service and contract. Whenever possible, contracts are awarded under full and open competition.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0305236F / Common Data Link Executive Agent (CDL EA)						Project (Number/Name) 641334 / Common Data Link (CDL)			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Cryptographic Modernization	MIPR	NSA : Ft Meade, MD	-	5.000	Nov 2023	7.400	Nov 2024	7.000	Nov 2026	-		7.000	-	-	-
CDL Network Modernization	MIPR	Air Force : Various	-	2.400	Nov 2023	2.760	Mar 2025	2.000	Mar 2026	-		2.000	-	-	-
A2AD Waveform Advancement	C/CPAF	Army : Various	-	1.950	Dec 2023	3.100	Dec 2024	5.000	Dec 2025	-		5.000	-	-	-
CDL Cognitive Radio Networking Element (CRNE)	C/Various	Navy : Various	-	0.700	Dec 2023	1.500	Dec 2024	0.900	Dec 2025	-		0.900	-	-	-
CDL Waveform Integration Technology	C/CPAF	Air Force : Various	-	-		1.447	Feb 2025	2.000	Feb 2026	-		2.000	-	-	-
CDL pLEO Waveform	C/CPAF	Navy : Various	-	-		1.250	Feb 2025	2.100	Feb 2026	-		2.100	-	-	-
CDL Model-Based Systems Engineering	C/CPAF	Air Force : Various	-	0.800	Dec 2023	0.403	Nov 2024	0.000	Nov 2026	-		0.000	-	-	-
Flexible Ku-Band Adaptive Coding and Group 1/2 UAV CDL and Cryptographic SWaP	C/CPAF	Marine Corps : Various	-	0.500	Nov 2023	0.000	Oct 2024	-		-		-	-	-	-
Pseudorandom Noise (PM) Code Generation	C/CPAF	Air Force : Various	-	0.900	Dec 2023	0.000	Oct 2024	-		-		-	-	-	-
Open Systems Architecture Framework	C/CPAF	Navy : Various	-	0.500	Dec 2023	0.750	Dec 2024	0.500	Dec 2025	-		0.500	-	-	-
Subtotal			-	12.750		18.610		19.500		-		19.500	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Service Tech Support & Spec Development	MIPR	Various : Various	-	3.500	Dec 2023	4.750	Dec 2024	4.750	Dec 2025	-		4.750	-	-	-
NATO STANAG 7085 Support	MIPR	Air Force : Various	-	0.350	Nov 2023	0.350	Dec 2024	0.400	Dec 2025	-		0.400	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0305236F / Common Data Link Executive Agent (CDL EA)				Project (Number/Name) 641334 / Common Data Link (CDL)					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Fielded Terminals Database	C/CPFF	Booz Allen : McLean, VA	-	0.400	Mar 2024	0.400	Nov 2024	0.400	Nov 2025	-		0.400	-	-	-
Subtotal			-	4.250		5.500		5.550		-		5.550	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Joint Interoperability Test Command Support	Various	Not specified. : TBD	-	0.800	Mar 2024	0.800	Oct 2024	0.800	Oct 2025	-		0.800	-	-	-
Subtotal			-	0.800		0.800		0.800		-		0.800	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MITRE Engineering Direct Mission Support (FFRDC)	SS/CPFF	MITRE Corp. : Bedford, MA	-	5.000	Oct 2023	6.000	Oct 2024	5.010	Oct 2025	-		5.010	-	-	-
PMO Support - AFLCMC (HNAG)	C/CPFF	Various : Various, MA	-	2.357	Apr 2024	2.439	Apr 2025	1.651	Oct 2026	-		1.651	-	-	-
Subtotal			-	7.357		8.439		6.661		-		6.661	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	25.157		33.349		32.511		-		32.511	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0305236F / Common Data Link Executive Agent (CDL EA)		Project (Number/Name) 641334 / Common Data Link (CDL)	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Common Data Link																												
CDL Technology Advancement																												
- CDL Protective Waveform (LPD/AJ) Advancement																												
- Networking (Multi-Access) Advancement																												
- BE CDL to Group 1 UAV																												
CDL Specification Development, Validation, Test and Maintenance																												
CDL Cryptographic Modernization																												
- US/Coalition Multi-algorithm Crypto Core Modules (Generation 2/3)																												
- US Multi-algorithm Crypto Core Modules (Generation 2/3)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0305236F / Common Data Link Executive Agent (CDL EA)	Project (Number/Name) 641334 / Common Data Link (CDL)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Common Data Link				
CDL Technology Advancement	1	2024	4	2030
- CDL Protective Waveform (LPD/AJ) Advancement	1	2024	4	2030
- Networking (Multi-Access) Advancement	1	2024	4	2030
- BE CDL to Group 1 UAV	1	2024	4	2030
CDL Specification Development, Validation, Test and Maintenance	1	2024	4	2030
CDL Cryptographic Modernization	1	2024	4	2030
- US/Coalition Multi-algorithm Crypto Core Modules (Generation 2/3)	1	2024	4	2030
- US Multi-algorithm Crypto Core Modules (Generation 2/3)	1	2024	2	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0305601F / <i>Mission Partner Environments</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	17.078	18.438	14.956	0.000	14.956	-	-	-	-	-	-
643783: <i>CENTRIXs Networks</i>	0.000	17.078	18.438	14.956	0.000	14.956	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Mission Partner Environment (MPE) enables secure sharing of operational information for collaboration between and among the United States (US) and mission partners to include federal, state, local, tribal agencies, allies, coalition members, host nations, other nations, US and international Non-Governmental Organizations, multinational treaty organizations, and private sector organizations.

The MPE program enables the US Department of Defense (DoD) to execute its assigned missions with mission partners across all ranges and phases of military operations to enable combined command and control (C2) of coalition forces while promoting effective exchange of C2 and intelligence information to enable effective use of the US and partner nation military power. MPE improves survivability and lethality of US Forces by incorporating coalition partners and allies ability to share information in a secret and below releasable environment.

DoD Directive 5101.22E, effective August 5, 2020, designated the Secretary of the Air Force as Executive Agent (EA) for the DoD MPE.

The FY 2026 funding continues the development, integration, and testing of an enterprise architectural engineering solution in alignment with the federated mission networking framework to combine multiple coalition information sharing capabilities, to include modifications or modernizations necessary to absorb or incorporate legacy capabilities and capacities. MPE capabilities share information in a secret and below releasable environment. SABRE enterprise provides Combatant Commands, Services, and Agencies (CC/S/A) with a federated and more secure data-centric releasable environment for continuous global collaboration and coordination; not only with each other, but with DoD components, select allies, coalition MPs, and interagency partners to include local, state, federal, and nongovernmental organizations (NGO)

This program element may include necessary civilian pay expenses required to manage, execute, and deliver 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 0.00M was expended for civilian pay expenses in this program element, and in CY 0.00M is forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025			
Appropriation/Budget Activity		R-1 Program Element (Number/Name)					
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0305601F I Mission Partner Environments					
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget		17.727	22.028	17.187	0.000	17.187	
Current President's Budget		17.078	18.438	14.956	0.000	14.956	
Total Adjustments		-0.649	-3.590	-2.231	0.000	-2.231	
• Congressional General Reductions		0.000	0.000				
• Congressional Directed Reductions		0.000	0.000				
• Congressional Rescissions		0.000	0.000				
• Congressional Adds		0.000	0.000				
• Congressional Directed Transfers		0.000	0.000				
• Reprogrammings		0.000	0.000				
• SBIR/STTR Transfer		0.000	0.000				
• Other Adjustments		-0.649	-3.590	-2.231	0.000	-2.231	
Change Summary Explanation							
FY25 Enact 3600 RDT&E Congressional Mark							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2024	FY 2025	FY 2026
Title: Mission Partner Environment					17.078	18.438	14.956
Description: Mission Partner Environment (MPE) enables secure sharing of operational information for collaboration between and among the US and mission partners to include federal, state, local, and tribal agencies, allies, coalition members, host nations, and other nations, US and international Non-Governmental Organizations, multinational treaty organizations, and private sector organizations.							
FY 2025 Plans:							
Continue to develop, integrate, and test enterprise architectural engineering solution in alignment with the federated mission networking framework to combine multiple coalition information sharing capabilities, to include modifications or modernizations necessary to absorb or incorporate legacy capabilities and capacities.							
FY 2026 Plans:							
Will continue to develop, integrate, and test an enterprise architectural engineering solution in alignment with the federated mission networking framework to combine multiple coalition information sharing capabilities, to include modifications or modernizations necessary to absorb or incorporate legacy capabilities and capacities.							
FY 2025 to FY 2026 Increase/Decrease Statement:							
Internal adjustment of SABRE requirement to O&M for Operation and Sustainment							
Accomplishments/Planned Programs Subtotals					17.078	18.438	14.956

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
3600: Research, Development, Test & Evaluation, Air Force / BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0305601F / Mission Partner Environments	

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

Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• O&M BA 01 PE 0305601F: Mission Partner Environment	163.055	185.459	134.864	-	134.864	-	-	-	-	-	-
• OPAF 03 834010: General Information Technology	41.486	20.093	2.086	-	2.086	-	-	-	-	-	-

Remarks

N/A

E. Acquisition Strategy

Performance-based contracts are primarily used for this support. MPE maximizes the use of competitive awards and uses various contract types, employs large and small contractors, and is focused to achieve agency socio-economic goals and incorporate DoD acquisition reform initiatives.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0305601F / Mission Partner Environments						Project (Number/Name) 643783 / CENTRIXs Networks					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Cross Domain Solution Ops Capabiliites	C/FFP	General Dynamics Msn Sys : Fairfax, VA	-	17.078	Feb 2024	18.438	Feb 2025	14.956	Feb 2026	-		14.956	-	-	-		
Subtotal			-	17.078		18.438		14.956		-		14.956	-	-	N/A		
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	17.078		18.438		14.956		-		14.956	-	-	N/A		
Remarks N/A																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force											Date: June 2025				
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0305601F / Mission Partner Environmen ts						Project (Number/Name) 643783 / CENTRIXs Networks			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
<i>Development, testing of capabilities, and integration of capacities into mission capabilities with continuity of operations for enterprise services</i>																												
Mission Partner Environment																												
<i>Development, integration & testing of legacy systems into a combined coalition sharing capability that encompasses a single environment with modified legacy systems capabilities</i>																												
Mission Partner Environment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0305601F / Mission Partner Environmen ts	Project (Number/Name) 643783 / CENTRIXs Networks	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Development, testing of capabilities, and integration of capacities into mission capabilities with continuity of operations for enterprise services</i>				
Mission Partner Environment	1	2024	4	2030
<i>Development, integration & testing of legacy systems into a combined coalition sharing capability that encompasses a single environment with modified legacy systems capabilities</i>				
Mission Partner Environment	1	2024	4	2030

Note
N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					PE 0701200F <i>I Enterprise Select Class II</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	0.000	1.000	1.000	-	-	-	-	-	-
64712R: <i>Combat Ready Airmen (CRA) - RDT&E</i>	0.000	0.000	0.000	0.000	1.000	1.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0701200F, project 64712R, Combat Ready Airmen (CRA) - RDT&E, is a new start.

A. Mission Description and Budget Item Justification

Combat Ready Airman provides resources to perform lead command roles and responsibilities and includes requirements management, test & evaluation, assurance of operational safety, suitability, effectiveness, initial acquisition, and product support management of the enterprise.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	0.000	1.000	1.000
Total Adjustments	0.000	0.000	0.000	1.000	1.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.000	1.000	1.000

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Combat Ready Airmen (CRA) - RDT&E	-	0.000	0.000	1.000	1.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0701200F I Enterprise Select Class II				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Description: CRA provides resources to perform lead command roles and responsibilities and includes requirements management, test & evaluation, assurance of operational safety, suitability, effectiveness, initial acquisition, and product support management of the enterprise. FY 2025 Plans: N/A FY 2026 Base Plans: N/A FY 2026 OOC Plans: CRA requires RDTE appropriations for Enterprise Mobility Organizational Clothing and Individual Equipment (OCIE) modernization due to existing capability gaps due to near peer great power competition threats, as well as OCIE investment has major impact by ensuring personnel are properly equipped and ready to fight regardless of the enemy threat. FY 2025 to FY 2026 Increase/Decrease Statement: This Effort is an New Start. \$1M in FY 2025 PE 0701200F Enterprise Select Class II 3400 funding will be realigned to PE 0701200F Enterprise Select Class II Project 64712R 3600 funding in order to fund OSS&E activities and proper material solution determination assessments.						
Accomplishments/Planned Programs Subtotals		-	0.000	0.000	1.000	1.000
D. Other Program Funding Summary (\$ in Millions) N/A						
Remarks						
E. Acquisition Strategy N/A						

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0701200F / Enterprise Select Class II						Project (Number/Name) 64712R / Combat Ready Airmen (CRA) - RDT&E			
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Combat Ready Airmen (CRA) - RDT&E	Various	AFMC/A4RX - Various : Wright-Patt AFB, OH	-	-		-		0.000		1.000	Oct 2025	1.000	-	-	-
Subtotal			-	-		-		0.000		1.000		1.000	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		0.000		1.000		1.000	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4			R-1 Program Element (Number/Name) PE 0701200F / Enterprise Select Class II		
			Project (Number/Name) 64712R / Combat Ready Airmen (CRA) - RDT&E		

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
CRA																												
Combat Ready Airmen (CRA) - RDT&E																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0701200F / Enterprise Select Class II	Project (Number/Name) 64712R / Combat Ready Airmen (CRA) - RDT&E

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CRA				
Combat Ready Airmen (CRA) - RDT&E	1	2026	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0708051F <i>I Rapid Sustainment Modernization (RSM)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	78.431	50.044	32.666	0.000	32.666	-	-	-	-	-	-
648051: <i>Rapid Sustainment Modernization Technologies</i>	0.000	78.431	50.044	32.666	0.000	32.666	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Rapid Sustainment Modernization program provides funding to accelerate the delivery of critical technologies to improve readiness and reduce sustainment costs. The Rapid Sustainment Office (RSO) will develop, test, and deploy new technologies for implementation across the Department of the Department of the Air Force (DAF) enterprise.

The RSO will achieve this by reaching across the enterprise to include the warfighter, depot maintenance, field maintenance, supply chain, and program offices to identify enterprise needs. The RSO will then identify, assess, develop, validate, and verify new technology projects that support these areas.

The Technology Focus Areas are Advanced Manufacturing (Additive Manufacturing/Coldspray), Artificial Intelligence/ Machine Learning (AI/ML), to include but not limited to Condition Based Maintenance Plus (CBM+), RSM Technologies, to include Data and Digital Engineering, Automation/Robotics, Augmented and Virtual Reality, and Rapid and Austere Environments. New technologies in these areas are evaluated in support of the DAF enterprise.

Funding in this PE will be used in agile processes to support development activities to rapidly respond to emergent requirements from the DAF enterprise in the year of execution to include but not limited to addressing Diminishing Manufacturing Sources and Material Shortages, reducing unscheduled weapons system maintenance, and enabling maintenance capabilities in austere environments. This PE may fund studies of new technologies to determine applicability to DAF requirements.

This program element may include necessary civilian pay expenses and emergent or unanticipated civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2025 up to \$5.086 million is forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0708051F I Rapid Sustainment Modernization (RSM)				
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		43.431	37.044	32.794	0.000	32.794
Current President's Budget		78.431	50.044	32.666	0.000	32.666
Total Adjustments		35.000	13.000	-0.128	0.000	-0.128
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		35.000	13.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-0.128	0.000	-0.128
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Rapid Sustainment Modernization-Advanced Manufacturing				44.055	28.849	23.650
Description: Advanced Repair and Qualification						
FY 2025 Plans: Continue to assess new technologies/equipment and develop standardized processes to allow for deployment across the enterprise. Continue to bring AM under a single umbrella program to focus technology growth via the RSM AM Always Guaranteeing Operational Ready Aircraft (AGORA) Marketplace: a centralized platform accessible via Cloud One to access Government AM capabilities, AM part requests/approvals, and approved AM hardware.						
FY 2026 Plans: Continue to assess new technologies/equipment and develop standardized processes to allow for deployment of key capabilities across the enterprise to enable alternative sources of manufacture and repair. Continued development of Digital Materiel Management capabilities, Additive Repair capabilities and technologies, and produce Additive Manufacturing new part prototypes to increase supply chain resilience.						
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding is reduced because FY 2024 PDM directed funding is lower for FY 2026 compared to FY 2025.						
Title: Rapid Sustainment Modernization-RSM Technologies				22.542	8.300	0.000
Description: RSM Technologies						
FY 2025 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0708051F <i>I Rapid Sustainment Modernization (RSM)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Continue to develop the LITE API Management Platform to increase sortie generation and aircraft availability at reduced cost by creating and managing data flow between LogIT Systems and digitizing production operations. Provide an enterprise single maintenance information system and enterprise integrated electronic technical manual capability as directed. Provide automation and robotics technologies to AF depots that increase throughput, personnel safety, and component production. Expand advancement of RSM technology capabilities in the AF enterprise by scaling "best of breed" technology across the sustainment enterprise as well as sustain deployed forces in expeditionary environments. Assess Intermittent Fault Detection (IFD) that supports efforts to address the No Fault Found issue by enabling the investigation of IFD technologies and the associated process by which to test, evaluate, identify best of breed, deploy, and sustain the assets. Assess Black Gold to accomplish testing and evaluation of the Black Gold compressor blade coating on turbine engines to enable certification and fleet integration of the coatings on aircraft engines for enhancement of fuel efficiency, improved erosion protection, and associated sustainment benefits. FY 2026 Plans: Dependent on additional funding, without funding these efforts will be put on hold: continue to develop the LITE API Management Platform to increase sortie generation and aircraft availability at reduced cost by creating and managing data flow between LogIT Systems and digitizing production operations. Provide an enterprise single maintenance information system and enterprise integrated electronic technical manual capability as directed. Provide automation and robotics technologies to AF depots that increase throughput, personnel safety, and component production. Expand advancement of RSM technology capabilities in the AF enterprise by scaling "best of breed" technology across the sustainment enterprise as well as sustain deployed forces in expeditionary environments. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding decreases as a result of Rapid Sustainment Improvement Process (RSIP) Group 1 funding ending in FY 2025.				
Title: Rapid Sustainment Modernization-AI/ML to include CBM+ Description: AI/ML FY 2025 Plans: Continue to implement, expand and enhance CBM+ enhanced Reliability Centered Maintenance (eRCM) and Sensor Based Algorithms (SBAs), improving the reliability of weapon systems, enhance analysis/unscheduled repairs, synchronize maintenance actions, reduce mission aborts, decrease maintenance costs, and reduce cycle time. CBM+ will use databases and information systems such as G081 and IMDS, information in the RSM CBM+ toolkit (PANDA). Investment funding will be used for expansion of software enhancements in PANDA and sensor based efforts such as aircraft (a/c) sensor 1553 databus recorders and SBA advancements. Investment funds will also be used for new use cases utilizing emerging AI/ML capabilities. FY 2026 Plans:		11.834	12.895	9.016

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025									
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0708051F I Rapid Sustainment Modernization (RSM)									
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026							
Continue to implement, expand and enhance CBM+ enhanced Reliability Centered Maintenance (eRCM) and Sensor Based Algorithms (SBAs), improving the reliability of weapon systems, enhance analysis/unscheduled repairs, synchronize maintenance actions, reduce mission aborts, decrease maintenance costs, and reduce cycle time. CBM+ will use databases and information systems such as G081 and IMDS, information in the RSM CBM+ toolkit (PANDA). Investment funding will be used for expansion of software enhancements in PANDA and sensor based efforts such as aircraft (a/c) sensor 1553 databus recorder sand SBA advancements. Investment funds will also be used for new use cases utilizing emerging AI/ML capabilities.											
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding decreases as a result of Rapid Sustainment Improvement Process (RSIP) Group 1 funding ending in FY 2025.											
Accomplishments/Planned Programs Subtotals		78.431	50.044	32.666							
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 04 845010: Base Procured Equipment	45.820	36.939	22.741	-	22.741	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy											
The RSO develops, tests, and deploys new technologies for implementation across the Air Force to improve readiness and reduce costs. New technologies are the key to meeting the challenges of aging weapon systems, increasing readiness, decreasing diminishing manufacturing sources and parts obsolescence, and will drive higher readiness and lower weapon system sustainment costs.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 4

R-1 Program Element (Number/Name)

PE 0708051F / Rapid Sustainment Modernization (RSM)

Project (Number/Name)

648051 / Rapid Sustainment Modernization Technologies

Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Manufacturing (Advanced Repair and Qualification)	Various	Various : Wright Patterson, OH	-	42.941	Dec 2023	25.007	Dec 2024	9.282	Dec 2025	-		9.282	-	-	-
Artificial Intelligence / Machine Learning (to include CBM+)	Various	Various : Wright Patterson, OH	-	11.834	Dec 2023	4.545	Dec 2024	9.016	Dec 2025	-		9.016	-	-	-
RSM Technologies	Various	Various : Wright Patterson, OH	-	20.370	Dec 2023	14.058	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
Subtotal			-	75.145		43.610		18.298		-		18.298	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority	TBD	Not specified. : TBD	-	1.114	Dec 2023	5.086	Dec 2024	5.232	Dec 2025	-		5.232	-	-	-
Subtotal			-	1.114		5.086		5.232		-		5.232	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs (PSC)	Various	Various : Wright Patterson, OH	-	2.172	Dec 2023	1.348	Dec 2024	9.136	Dec 2025	-		9.136	-	-	-
Subtotal			-	2.172		1.348		9.136		-		9.136	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	78.431		50.044		32.666		-		32.666	-	-	N/A

Remarks

FY 2025 includes funding for Automation Innovation for Sustainment (\$3.000 million) and Rapid Adaptive Manufacturing for Sustainment and Affordable Mass (\$10.000 million).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force							Date: June 2025			
Appropriation/Budget Activity			R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 4			PE 0708051F / Rapid Sustainment Modernization (RSM)			648051 / Rapid Sustainment Modernization Technologies				
	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
FY 2024 includes funding added in the FY 2024 Appropriations Act for Agile Manufacturing Robot (\$9.000 million), Additive Manufacturing Digital Technology Maturation (\$3.000 million), 3D Interactive Instruction (\$3.000 million), and Digital Part Transformation (\$20.000 million).										

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0708051F / Rapid Sustainment Modernization (RSM)					Project (Number/Name) 648051 / Rapid Sustainment Modernization Technologies									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Rapid Sustainment Modernization																												
Advanced Manufacturing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0708051F / Rapid Sustainment Modernization (RSM)	Project (Number/Name) 648051 / Rapid Sustainment Modernization Technologies

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Rapid Sustainment Modernization</i>				
Advanced Manufacturing	1	2025	1	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0808736F / <i>Special Victim Accountability and Investigation</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	3.006	1.997	0.000	1.997	-	-	-	-	-	-
648737: <i>Studies in Sexual Assault Prevention</i>	0.000	0.000	3.006	1.997	0.000	1.997	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY25 and FY26 funding for ORION was transferred to PE 0808736F from PE 0808737F.

A. Mission Description and Budget Item Justification

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 FY2024 0 was expended for civilian pay expenses in this program element, and in FY2025 0 is forecasted for civilian pay expenses in this program element.

Funds moved from PE 808737F to this PE (808736F) beginning in FY25. This is not a new start.

Following completion of a Presidentially-directed Independent Review Committee (IRC) on Sexual Assaults for the Department of Defense, the Secretary of Defense (SECDEF) directed the implementation of multiple IRC recommendations. The Integrated Prevention PE contains two programs in support of those recommendations: The Air Force Office of Special Investigations (OSI), Records, Investigations and Operations Network (ORION) program and the Interpersonal Self-Directed Violence (ISDV) Prevention program.

Air Force Office of Special Investigations (OSI), Records, Investigations and Operations Network (ORION):

The Department of the Air Force (DAF) Office of Special Investigations (OSI) is DAF's sole felony-level criminal investigative agency mandated to investigate criminal offenses, to include sexual offenses and interpersonal violence. IRC recommendations C2, C3, C4, 1.8, 2.6a, 3.1, and 3.3a, directed the DAF to increase its ability to collect, analyze, and integrate data related to sexual offenses and interpersonal violence to inform and guide prevention and response. The DAF will develop and deploy the OSI Investigations, Operations, and Records Network (ORION) information system as to satisfy SECDEF requirements.

In tandem with the context above, another key driver for development of ORION is the DAF's requirement to identify a central case management system solution to allow for more effective oversight of and more efficient execution of the DAF's criminal indexing process.

ORION will be a cloud-based, next-generation case management system used to document, manage, store, and report criminal investigative and counterintelligence information involving violations of the Uniform Code of Military Justice and the United States Code. ORION will serve as OSI's central mission application capable of

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0808736F I Special Victim Accountability and Investigation				
ensuring sexual assaults, intimate partner violence, violent extremism, service-member deaths, and dozens of other crimes are properly investigated and recorded. ORION will be used by over 3,000 OSI personnel including nearly 2,000 federally-credentialed Special Agents at OSI's 300+ global operating locations.						
ORION will enable the DAF to modernize criminal indexing processes both operationally and technologically. Operationally, ORION will reduce redundancy, streamline processes, encourage standardization, and decrease administrative burden. The DAF is exploring options to use ORION to replace other systems and enable data transfer to other stakeholders with the goal to increase integration and productivity and avoid duplicative data entry. ORION could also be leveraged to be placed on one or more Special Access Programs (SAP) networks to become a system of record for OSI investigative and security support to DAF SAP programs. Technologically, ORION leverages the affordability, scalability, security, and services provided by cloud computing. Additionally, ORION will be mobile-ready, enabling agents to securely access and document investigative data from mobile devices whenever and wherever needed, thereby increasing efficiency and reducing delays. Lastly, ORION will be built on a low-code/no-code enterprise platform which enables the rapid development, deployment, and sustainment of capability.						
The DAF is considering options to leverage ORION and its enterprise low-code/no-code platform for other DAF case management and/or business process management requirements. Such a platform, operated and sustained at the enterprise level, has potential to yield cost savings, operational enhancements, and technical efficiencies as well as reduce DAF overhead. With ORION serving as the initial application, the case management platform could promote the expedited development, deployment, and sustainment of future case management systems at economies of scale.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.000	3.006	2.004	0.000	2.004
Current President's Budget		0.000	3.006	1.997	0.000	1.997
Total Adjustments		0.000	0.000	-0.007	0.000	-0.007
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-0.007	0.000	-0.007
C. Accomplishments/Planned Programs (\$ in Millions)						
Title: ORION Continuous Capability & Case Management Framework Development				FY 2024	FY 2025	FY 2026
				0.000	3.006	1.997

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0808736F / <i>Special Victim Accountability and Investigation</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: ORION will be developed, optimized, and enhanced through the completion of iterative software development cycles using an agile software development methodology. Development will focus on building functionality and capability for ORION. Development activities include licensing, system design and architecture, requirements analysis, product building, planning and testing, data migration as required, systems integration, and the establishment and incorporation of various cloud services. Additionally, development includes various services and program support activities for ORION and enabling a larger Air Force Case Management Platform. FY 2025 Plans: - Continue iterative software development and integration of the ORION application - Optimize, test, and sustain ORION cloud implementations - Establish, test, and complete new and existing ORION integrations with other OSI, Air Force, DoD, and criminal justice systems to increase data sharing and mission effectiveness. - Continue to ensure robust ORION system security and support the Risk Management Framework [RMF] through continuous monitoring activities - Continue to support 24/7 operations for global ORION user community through Help Desk operations, functional expertise, technical support, and other user needs - Continue to operate, manage, and maintain ORION application and ORION cloud environment - Continue to deploy fixes to address new and existing software defects and user-identified problems - Continue planning and development of classified components of ORION FY 2026 Plans: - Will continue iterative software development and integration of the ORION unclassified and classified application components - Will optimize, test and sustain ORION cloud implementations - Will establish, test, and complete new and existing ORION integrations with other OSI, Air Force, DoD, and criminal justice systems to increase data sharing and mission effectiveness. - Will continue to ensure robust ORION system security and support the Risk Management Framework [RMF] through continuous monitoring activities - Will continue to support 24/7 operations for global ORION user community through Help Desk operations, functional expertise, technical support, and other user needs - Will continue to operate, manage, and maintain ORION application and ORION cloud environment - Will continue to deploy fixes to address new and existing software defects and user-identified problems FY 2025 to FY 2026 Increase/Decrease Statement:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0808736F / <i>Special Victim Accountability and Investigation</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2026 funding decreased compared to FY 2025 by 1.003 million due to projected completion of ORION-Classified platform development. 2.003 million has been left to cover on-going development, as well as, but not limited to, continued ORION application enhancement development efforts.				
Accomplishments/Planned Programs Subtotals		0.000	3.006	1.997
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy ORION will adopt an agile, phased approach to application development and deployment. ORION development will be a collaborative process to include a cadre of experienced Special Agents, functional experts, and software developers. In addition to managing OSI's law enforcement-related criminal investigations information, ORION will also manage counterintelligence investigations and operations. Ultimately, the classified and unclassified versions of ORION will share limited data through an automated, bi-directional, cross-domain solution to ensure users have ready access to both criminal and counterintelligence information. Once complete, ORION will fully subsume OSI's current management systems and serve as OSI's investigative system of record. In tandem with ORION development, the DAF is considering options to leverage this program to enable a larger DAF Case Management Platform. This platform would provide DAF customers requiring similar case management capabilities with the ability to share and modify system components and workflows, establish best practices, benefit from economies of scale, share/reduce costs, implement uniformity across systems, and decrease time required to deliver capability to end-users. This platform would also lessen overall administrative burdens associated with Clinger-Cohen Act compliance, the Business Capability Acquisition Cycle (BCAC), and program management.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0808736F / Special Victim Accountability and Investigation						Project (Number/Name) 648737 / Studies in Sexual Assault Prevention			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ORION: Application Development & Cloud Implementation	C/CPAF	HumanIT : Beavercreek, OH	-	-		1.750	Feb 2025	1.200	Jun 2026	-		1.200	-	-	-
ORION: Cloud Hosting	MIPR	AFLCMC : Hanscom, MD	-	-		0.296	Dec 2024	0.250	Mar 2026	-		0.250	-	-	-
Subtotal			-	-		2.046		1.450		-		1.450	-	-	N/A
Remarks ORION program consolidated cloud and application management services.															
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ORION: Cybersecurity	C/CPAF	TBD : TBD	-	-		0.195	Dec 2024	0.250	Jun 2026	-		0.250	-	-	-
Subtotal			-	-		0.195		0.250		-		0.250	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ORION: Cloud & Application Management	C/CPAF	TBD : TBD	-	-		0.574	Oct 2024	0.200	Jun 2026	-		0.200	-	-	-
ORION: Program Support	C/CPAF	TBD : TBD	-	-		0.191	Dec 2024	0.097	Jun 2026	-		0.097	-	-	-
Subtotal			-	-		0.765		0.297		-		0.297	-	-	N/A
Remarks ORION program consolidated cloud and application management services.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025			
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0808736F / Special Victim Accountability and Investigation					Project (Number/Name) 648737 / Studies in Sexual Assault Prevention				
		Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		-	-		3.006		1.997		-		1.997	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0808736F / Special Victim Accountability and Investigation									
										Project (Number/Name) 648737 / Studies in Sexual Assault Prevention									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
ORION Capability Development Requirements																												
Application & Cloud Management																												
Cybersecurity Implementation & Maintenance																												
Establish IL6 Cloud Environment																												
Initiate ORION-Classified Development																												
Further Development of ORION Capabilities																												
ORION Iterative Sustainment Activities																												
Field ORION Classified																												
Cross Domain Solution Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0808736F / Special Victim Accountability and Investigation	Project (Number/Name) 648737 / Studies in Sexual Assault Prevention	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ORION Capability Development Requirements				
Application & Cloud Management	1	2025	4	2030
Cybersecurity Implementation & Maintenance	1	2025	4	2030
Establish IL6 Cloud Environment	1	2025	4	2026
Initiate ORION-Classified Development	1	2025	4	2026
Further Development of ORION Capabilities	1	2025	4	2030
ORION Iterative Sustainment Activities	1	2026	4	2030
Field ORION Classified	1	2025	2	2027
Cross Domain Solution Development	2	2025	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0808737F <i>I Integrated Primary Prevention</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	9.021	5.364	5.167	0.000	5.167	-	-	-	-	-	-
648737: <i>Sexual Assault Prvntion Study</i>	0.000	9.021	5.364	5.167	0.000	5.167	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY25 and FY26 funding for ORION was transferred to PE 808736F.

A. Mission Description and Budget Item Justification

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 FY2024 \$0 was expended for civilian pay expenses in this program element, and in FY2025 \$0 is forecasted for civilian pay expenses in this program element.

ORION funds moved from this PE (808737F) to PE 808736F beginning in FY25.

Following completion of a Presidentially-directed Independent Review Committee (IRC) on Sexual Assaults for the Department of Defense, the Secretary of Defense (SECDEF) directed the implementation of multiple IRC recommendations. The Integrated Prevention PE contains two programs in support of those recommendations: The Air Force Office of Special Investigations (OSI), Records, Investigations and Operations Network (ORION) program and the Interpersonal Self-Directed Violence (ISDV) Prevention program.

Air Force Office of Special Investigations (OSI), Records, Investigations and Operations Network (ORION):

The Department of the Air Force (DAF) Office of Special Investigations (OSI) is DAF's sole felony-level criminal investigative agency mandated to investigate criminal offenses, to include sexual offenses and interpersonal violence. IRC recommendations C2, C3, C4, 1.8, 2.6a, 3.1, and 3.3a, directed the DAF to increase its ability to collect, analyze, and integrate data related to sexual offenses and interpersonal violence to inform and guide prevention and response. The DAF will develop and deploy the OSI Investigations, Operations, and Records Network (ORION) information system as to satisfy SECDEF requirements.

In tandem with the context above, another key driver for development of ORION is the DAF's requirement to identify a central case management system solution to allow for more effective oversight of and more efficient execution of the DAF's criminal indexing process.

ORION will be a cloud-based, next-generation case management system used to document, manage, store, and report criminal investigative and counterintelligence information involving violations of the Uniform Code of Military Justice and the United States Code. ORION will serve as OSI's central mission application capable of

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0808737F I Integrated Primary Prevention	
ensuring sexual assaults, intimate partner violence, violent extremism, service-member deaths, and dozens of other crimes are properly investigated and recorded. ORION will be used by over 3,000 OSI personnel including nearly 2,000 federally-credentialed Special Agents at OSI's 300+ global operating locations. ORION will enable the DAF to modernize criminal indexing processes both operationally and technologically. Operationally, ORION will reduce redundancy, streamline processes, encourage standardization, and decrease administrative burden. The DAF is exploring options to use ORION to replace other systems and enable data transfer to other stakeholders with the goal to increase integration and productivity and avoid duplicative data entry. ORION could also be leveraged to be placed on one or more Special Access Programs (SAP) networks to become a system of record for OSI investigative and security support to DAF SAP programs. Technologically, ORION leverages the affordability, scalability, security, and services provided by cloud computing. Additionally, ORION will be mobile-ready, enabling agents to securely access and document investigative data from mobile devices whenever and wherever needed, thereby increasing efficiency and reducing delays. Lastly, ORION will be built on a low-code/no-code enterprise platform which enables the rapid development, deployment, and sustainment of capability. The DAF is considering options to leverage ORION and its enterprise low-code/no-code platform for other DAF case management and/or business process management requirements. Such a platform, operated and sustained at the enterprise level, has potential to yield cost savings, operational enhancements, and technical efficiencies as well as reduce DAF overhead. With ORION serving as the initial application, the case management platform could promote the expedited development, deployment, and sustainment of future case management systems at economies of scale. Air Force Integrated Resilience Office (A1Z), Interpersonal Self-Directed Violence Prevention: The Department of the Air Force (DAF) Integrated Resilience Directorate (A1Z) is the Air Force's lead agency for the research, development, and analysis of ISDV prevention and resilience programming across The Force. The IRC recommended multiple initiatives to help the Services research, develop, and assess interpersonal and self-directed violence (ISDV) prevention strategies. ISDV encompasses sexual assault, domestic violence, suicide, and resilience. IRC recommendations 2.3, 2.4, 2.6, and 3.5 directed the DAF to implement prevention strategies at organizational and community levels through the modernization of prevention education, training, program evaluation, and improved processes for data collection and analysis. The DAF will execute the IRC's recommendations in support of initiatives to include, but not limited to: - The Tech-based Machine Learning Initiative - A state-of-the-art DoD prevention research capability that utilizes machine learning algorithms to analyze qualitative data to identify trends that lead to ISDV. - The Community Prevention Platform [CPP] - A web-based software system that will maintain Installation and Major Command community action plans and facilitate DAF Headquarters ability to track and assess plans. - The Peer-Network Resilience Training Program (PRTP) - An initiative to analyze and modernize current resilience training processes to more effectively reflect today's generation of Service members.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0808737F I Integrated Primary Prevention				
- The Project Proficiency-based Sexual Assault Training (PSAT) - This initiative will similarly update and expand the current Air Force sexual assault training by implementing tailored-training based on subject knowledge as well as long-term training-competency tracking for Airmen/Guardians over their career cycle.						
- The Sexual Assault Prevention Response Virtual Reality (SAPR V) - This initiative will further enhance training initiatives by implementing cutting-edge Virtual Reality capability to more effectively enable Airmen and Guardians to recognize and prevent sexual assault.						
The DAF is committed to implementing the Commission's recommendations to more effectively identify behavioral and cultural contributors to ISDV, educate/train Airmen and Guardians to facilitate ISDV prevention, and transparently document and track Installation-level strategies to facilitate evaluation.						
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		9.364	5.364	5.352	0.000	5.352
Current President's Budget		9.021	5.364	5.167	0.000	5.167
Total Adjustments		-0.343	0.000	-0.185	0.000	-0.185
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		-0.343	0.000	-0.185	0.000	-0.185
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: ORION Continuous Capability & Case Management Framework Development				4.174	0.000	0.000
Description: ORION will be developed, optimized, and enhanced through the completion of iterative software development cycles using an agile software development methodology. Development will focus on building functionality and capability for ORION. Development activities include licensing, system design and architecture, requirements analysis, product building, planning and testing, data migration as required, systems integration, and the establishment and incorporation of various cloud services. Additionally, development includes various services and program support activities for ORION and enabling a larger Air Force Case Management Platform.						
FY 2025 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0808737F <i>I Integrated Primary Prevention</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- Continue iterative software development and integration of the ORION application - Optimize, test, and sustain ORION cloud implementations - Establish, test, and complete new and existing ORION integrations with other OSI, Air Force, DoD, and criminal justice systems to increase data sharing and mission effectiveness. - Continue to ensure robust ORION system security and support the Risk Management Framework [RMF] through continuous monitoring activities - Continue to support 24/7 operations for global ORION user community through Help Desk operations, functional expertise, technical support, and other user needs - Continue to operate, manage, and maintain ORION application and ORION cloud environment - Continue to deploy fixes to address new and existing software defects and user-identified problems - Continue planning and development of classified components of ORION FY 2026 Plans: - Will continue iterative software development and integration of the ORION application - Will optimize, test and sustain ORION cloud implementations - Will establish, test, and complete new and existing ORION integrations with other OSI, Air Force, DoD, and criminal justice systems to increase data sharing and mission effectiveness. - Will continue to ensure robust ORION system security and support the Risk Management Framework [RMF] through continuous monitoring activities - Will continue to support 24/7 operations for global ORION user community through Help Desk operations, functional expertise, technical support, and other user needs - Will continue to operate, manage, and maintain ORION application and ORION cloud environment - Will continue deploy fixes to address new and existing software defects and user-identified problems - Will continue planning and development of classified components of ORION FY 2025 to FY 2026 Increase/Decrease Statement: FY25 and FY26 funding for ORION was transferred to PE 88736F.				
Title: ISDVP Research & Development Description: The DAF will conduct numerous research and development initiatives to more effectively determine trends in ISDV events, precursors, and preventative factors. These initiatives include modernizing prevention education and training programs and evaluating their effectiveness; developing software solutions to streamline, modernize, and improve community-level prevention strategies; and leveraging machine learning to determine trends that engender ISDV activities. All initiatives address IRC recommendations and will be designed to improve the overall health and well-being of Total Force Airmen and Guardians.		4.847	5.364	5.167

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0808737F <i>I Integrated Primary Prevention</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
<i>FY 2025 Plans:</i> - Continue to leverage software solutions and develop minimum viable capability to store and track community action plans - Conduct business process mapping initiatives to refine requirements and plan interface coordination - Integrate data push/pull mechanisms with software programs - Refine key markers of success for prevention program evaluation and modernization efforts - Evaluate existing ISDV prevention education/training programs and develop a prioritized modernization strategy - Develop, test, and deploy modernized ISDV prevention education/training programs leveraging advanced training techniques, such as virtual reality - Develop and pilot career-long evaluation plans to track effectiveness - Develop, test, and refine Machine Learning models for to conduct trend analysis on years of Airmen and Guardians' climate surveys and other feedback mechanisms <i>FY 2026 Plans:</i> - Will continue to leverage software solutions and develop minimum viable capability to store and track community action plans - Will conduct business process mapping initiatives to refine requirements and plan interface coordination - Will integrate data push/pull mechanisms with software programs - Will refine key markers of success for prevention program evaluation and modernization efforts - Will evaluate existing ISDV prevention education/training programs and develop a prioritized modernization strategy - Will develop, test, and deploy modernized ISDV prevention education/training programs leveraging advanced training techniques, such as virtual reality - Will develop and pilot career-long evaluation plans to track effectiveness - Will develop, test, and refine Machine Learning models for to conduct trend analysis on years of Airmen and Guardians' climate surveys and other feedback mechanisms <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Decrease between FY25 and FY26 was due to completion of preacquisition activities.				
Accomplishments/Planned Programs Subtotals		9.021	5.364	5.167
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy ORION:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0808737F I Integrated Primary Prevention	
ORION will adopt an agile, phased approach to application development and deployment. ORION development will be a collaborative process to include a cadre of experienced Special Agents, functional experts, and software developers. In addition to managing OSI's law enforcement-related criminal investigations information, ORION will also manage counterintelligence investigations and operations. Ultimately, the classified and unclassified versions of ORION will share limited data through an automated, bi-directional, cross-domain solution to ensure users have ready access to both criminal and counterintelligence information. Once complete, ORION will fully subsume OSI's current management systems and serve as OSI's investigative system of record. In tandem with ORION development, the DAF is considering options to leverage this program to enable a larger DAF Case Management Platform. This platform would provide DAF customers requiring similar case management capabilities with the ability to share and modify system components and workflows, establish best practices, benefit from economies of scale, share/reduce costs, implement uniformity across systems, and decrease time required to deliver capability to end-users. This platform would also lessen overall administrative burdens associated with Clinger-Cohen Act compliance, the Business Capability Acquisition Cycle (BCAC), and program management. ISDV Prevention: This effort explores numerous initiatives to ultimately prevent ISDV. The DAF will execute agile processes within all initiatives. Software solutions will develop and deploy minimum viable capability early and continue to refine based on prioritized need. Research and analysis initiatives will seek industry best practices to implement novel technological solutions to these tough problem sets. Contract strategies will require multiple approaches with a focus on best value and rapid execution. Efforts may also leverage existing AFRL SBIRs and Air University collaborations with Subject Matter Experts (SMEs) and nationally recognized experts from Industry and Academia.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0808737F / Integrated Primary Prevention						Project (Number/Name) 648737 / Sexual Assault Prvntion Study					
Product Development (\$ in Millions)						FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ORION: Application Development & Cloud Implementation	C/CPAF	HumanIT : Beavercreek, OH	-	2.852	Feb 2024	1.800	Feb 2025	1.200	Mar 2026	-		1.200		-	-	-	-
ORION: Cloud Hosting	MIPR	AFLCMC : Hanscom, MA	-	0.396	Dec 2023	0.100	Dec 2024	0.100	Mar 2026	-		0.100		-	-	-	-
ISDVP: Application Development	C/FFP	TBD : TBD	-	0.625	Mar 2024	0.438	Mar 2025	0.425	Mar 2026	-		0.425		-	-	-	-
ISDVP: Edu/Training Modernization	C/FFP	TBD : TBD	-	0.401	Mar 2024	0.402	Mar 2025	0.294	Mar 2026	-		0.294		-	-	-	-
ISDVP: Trend Analysis	C/FFP	TBD : TBD	-	0.500	Mar 2024	0.401	Mar 2025	0.441	Mar 2026	-		0.441		-	-	-	-
ISDVP: Curriculum Development/ Implementation/Evaluation	C/FFP	TBD : TBD	-	3.095	Mar 2024	1.081	Mar 2025	1.432	Mar 2026	-		1.432		-	-	-	-
Subtotal			-	7.869		4.222		3.892		-		3.892		-	-	-	N/A
Remarks																	
- ORION: ORION program is accounted for in PE 0808736F.																	
Test and Evaluation (\$ in Millions)						FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ORION: Cybersecurity	C/CPAF	TBD : TBD	-	0.232	Dec 2023	0.200	Dec 2024	0.250	Dec 2025	-		0.250		-	-	-	-
Subtotal			-	0.232		0.200		0.250		-		0.250		-	-	-	N/A
Remarks																	
- ORION: ORION program is accounted for in PE 0808736F.																	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0808737F / Integrated Primary Prevention				Project (Number/Name) 648737 / Sexual Assault Prvntion Study							
Management Services (\$ in Millions)						FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ORION: Cloud & Application Management	C/CPAF	TBD : TBD	-	0.589	Oct 2023	0.610	Oct 2024	0.680	Oct 2025	-		0.680		-	-	-	-
ORION: Program Support	C/CPAF	TBD : TBD	-	0.131	Dec 2023	0.132	Dec 2024	0.145	Dec 2025	-		0.145		-	-	-	-
ISDVP: Application Management	C/CPAF	TBD : TBD	-	0.100	Dec 2023	0.100	Dec 2024	0.100	Dec 2025	-		0.100		-	-	-	-
ISDVP: Program Support	C/CPAF	TBD : TBD	-	0.100	Dec 2023	0.100	Dec 2024	0.100	Dec 2025	-		0.100		-	-	-	-
Subtotal			-	0.920		0.942		1.025		-		1.025		-	-	-	N/A
Remarks																	
- ORION: ORION program is accounted for in PE 0808736F.																	
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	9.021		5.364		5.167		-		5.167	-	-	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0808737F / Integrated Primary Preventio n				Project (Number/Name) 648737 / Sexual Assault Prvntion Study			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
ISDVP Research & Development																												
Community Action Plan System Development, Test, & Deployment																												
Education/Training Modernization Development, Test, & Implementation																												
Trend Analysis																												
Curriculum Development/Implementation, & Evaluation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0808737F / Integrated Primary Prevention	Project (Number/Name) 648737 / Sexual Assault Prvntion Study	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ISDVP Research & Development				
Community Action Plan System Development, Test, & Deployment	2	2024	1	2025
Education/Training Modernization Development, Test, & Implementation	1	2024	4	2027
Trend Analysis	1	2024	4	2025
Curriculum Development/Implementation, & Evaluation	1	2024	4	2027

Note

- ORION: ORION program is accounted for in PE 0808736F.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0901410F / <i>Contracting Information Technology System</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	22.964	28.995	29.277	0.000	29.277	-	-	-	-	-	-
643483: <i>CON-IT</i>	0.000	22.964	28.995	29.277	0.000	29.277	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Contracting Information Technology (CON-IT) system enables the Department of the Air Force (DAF) to accomplish its mission effectively and securely in today's rapidly changing and increasingly contested cyber domain. The Air and Space Forces require a single, 21st century contract management solution to enable DAF mission execution, from acquiring and sustaining weapon system platforms, to supporting contingency operations overseas. CON-IT supplies this single solution by consolidating and replacing numerous aging and increasingly unsupportable, legacy contract writing and management systems, while enabling the Air and Space Forces to procure vital capability faster and with increased data accuracy through built-in automation.

Specifically, CON-IT's functionality provides contract data sharing interoperability across all DAF contracting communities and external business partners such as Defense Contract Management Agency, Defense Finance and Accounting Service, and industry partners. In addition, CON-IT facilitates the execution of the DAF's 200+ billion annual budget, ensuring global procurement operations are timely, auditable, and secure.

CON-IT enables the DAF to anticipate and respond to the changing pace and dynamic nature of processes, regulations, compliance and technologies across the contracting domain. It empowers the contracting community to comply with Financial Improvement Audit Readiness (FIAR). CON-IT supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D. CON-IT was the Department of Defense's (DoD) first contract writing system meeting Section 862 of FY13 NDAA requirements implementing DoD Procurement Data Standards (PDS). In addition, CON-IT implements Section 508 of the Rehabilitation Act of 1973 (as amended) to make Electronic and Information Technology (EIT) accessible to people with disabilities.

To modernize the DAF contracting infrastructure, requirements are divided into 2 objectives.

Objective 1: Develop the following 8 capabilities:

- Capability 1: Modernize contract writing for 3,800 operational/installation contracting users, sunseting the Standard Procurement System (SPS) system. (Completed in FY19; first and only service to comply with the original Office of the Secretary of Defense (OSD) SPS sunset mandate)
- Capability 2: Modernize contract writing capability for the contingency contracting community, sunseting O'Contrax system. (Completed in FY20)
- Capability 3: Modernize contract writing capability for 2,500 Weapon Systems contracting users, sunseting ConWrite, a 20+ year-old system containing contracts worth more than 2 trillion for major weapon system programs such as B-21, KC-46, and more. (Fielded in FY24)
- Capability 4: Deliver Business Intelligence (BI) capability to provide timely and reliable data for decision makers across the entire DAF. (Completed in FY23)
- Capability 5: Modernize capability to meet the unique classified needs within all contracting communities. This capability is on the critical path to sunset ConWrite and is planned to be completed FY25.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0901410F I Contracting Information Technology System	
• Capability 6: Modernize capability to meet the unique needs of the R&D contracting community to execute grants and cooperative agreements. This capability is on the critical path to sunset ConWrite and is planned to be completed FY26. • Capability 7: Add E-Filing capability to provide a single, authoritative source for electronic contract file storage with capability to search and review individual documents. This capability is planned to be complete in FY26. • Capability 8: Modernize contract writing capability for 1,500 Logistics contracting community users to award weapon system sustainment product support/logistics requirements. Enables the DAF to sunset the Automated Contract Preparation System (ACPS), a 30+ years old legacy system. This capability is on the critical path to sunset ACPS and is planned to be completed in FY28.		
Thus far, CON-IT has successfully fielded four (Capabilities 1-4), Minimum Viable Products (MVP) of the eight established capabilities modernizing contract writing and management for both the operational and contingency contracting communities as well as improving Business Intelligence. Fielding these capabilities resulted in the replacement of two of four contract writing systems.		
Objective 2: Maintain Compliance. CON-IT has deployed to 6,672 active users across 329 procurement organizations worldwide as of 4QFY24. In FY24, CON-IT awarded 75,181 contract actions totaling 42.5B, compared to 73,334 contract actions totaling 28.4B in FY23. The DAF continuously addresses numerous technical debt backlog requirements to maintain system functionality and meet modern data standards. These initiatives also develop capability to maintain compliance with Federal and OSD mandates, coordinate DevSecOps, and improve infrastructure and system performance.		
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY24 0.000M was expended for civilian pay expenses in this program element, and in FY25 0.000M is forecasted for civilian pay expenses in this program element. The FY 2026 request for CON-IT includes 29,277 thousand of discretionary and 0 thousand of mandatory (reconciliation) for a total of 29,277 thousands.		
This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0901410F I Contracting Information Technology System				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	28.294	28.995	30.084	0.000	30.084	
Current President's Budget	22.964	28.995	29.277	0.000	29.277	
Total Adjustments	-5.330	0.000	-0.807	0.000	-0.807	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	-4.584	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	-0.746	0.000	-0.807	0.000	-0.807	
Change Summary Explanation						
FY 2024: Congressional Mark (Senate Appropriations Committee - Defense)						
FY 2026: Efficiency - Contract Services; Reduces contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: CON-IT System Development				22.964	28.995	29.277
Description: CON-IT development is accomplished using agile software development practices to build upon a Government-off-the-Shelf contract management system to replace four legacy contract writing systems and multiple support systems. Development efforts are phased into eight major capabilities according to the requirements of each contracting community. This enables phased transitions from the various legacy systems to CON-IT. Capabilities are fielded utilizing the MVP concept for each user group. The MVP contains the minimum set of requirements users need to complete their mission. The deployed MVP is then continually enhanced and refined in future capability releases. Thus far, the DAF fielded MVP Capabilities 1, 2, 3, and 4 and deployed CON-IT to the operational/installation, contingency contracting, and Weapon Systems communities.						
Capabilities 5, 6, and 7 are in work. In FY24 the DAF delivered CON-IT to 2,110 ConWrite and 312 ACPS users via swivel chair integration, in which both new and legacy systems are used concurrently. This brought the total number of active users to 6,672. Additional users will be added as capabilities are developed, including Classified users in FY25.						
FY 2025 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 Program Element (Number/Name) PE 0901410F <i>I Contracting Information Technology System</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
The DAF will deliver the MVP for Capability 5 (classified contracting), continue development of Capability 6 (R&D contracting), and continue to plan development activities for Capability 7 (e-filing). CON-IT does not contain an existing baseline to develop R&D capability. R&D business processes will be developed from scratch, implementing a new data standard that OSD is currently developing for use across all Services. Examples of specific requirements to be addressed in FY25 are included below: - Continue construction of database and business logic for grants and cooperative agreements - Develop, test and field PDS 2.7 including SLOA and Grouping - Continue software development work to support Contract migration from legacy systems - Finalize work for Capability 5, deploying MVP version to classified communities - Improve system performance and data handling to better handle larger and more complex transactions - Continue to develop Business Intelligence functionality to enhance contract writing and reporting capability - Develop business rules to improve data compliance by ensuring users comply with existing regulations and PDS - Continue to leverage Agile methods and cadence to resolve existing/new defects and add enhancements in the production environment - Develop system updates required to maintain compliance with Federal and Office of the Secretary of Defense (OSD) contract writing mandates. The regulations and laws surrounding contracting can change frequently, Contract Writing Systems must be adaptable to allow updates to maintain currency with all mandated changes. FY 2026 Plans: The DAF will field MVPs for Capabilities 6 (R&D) and 7 (e-filing), and plan development activities for Capability 8 (Logistics). Examples of specific requirements to be addressed in FY26 are included below: - Will implement capability for Conformance checks across systems, enabling automatic ACO modification ingestion - Will implement capability to capture complex Packing and Marking instruction - Will finalize development work to field MVP version of R&D/Other Transaction (OT) Solution - Will finalize development work to prepare for fielding MVP version of E-filing Solution - Will begin development for Logistics MVP, this will include functional development and interface adjustments - Will continue software development work to support Contract migration from legacy systems - Will develop business rules to improve data compliance by ensuring users comply with existing regulations and PDS/ADS - Will continue to leverage Agile methods and cadence to resolve existing/new defects and add enhancements in the production environment - Will research, design, and build a secure and continuous process for capability development and delivery				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force							Date: June 2025				
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>				R-1 Program Element (Number/Name) PE 0901410F / <i>Contracting Information Technology System</i>							
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2024	FY 2025	FY 2026		
- Will develop system updates required to maintain compliance with Federal and Office of the Secretary of Defense (OSD) contract writing mandates. The regulations and laws surrounding contracting can change frequently, Contract Writing Systems must be adaptable to allow updates to maintain currency with all mandated changes. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY26 funding increased by 1% over the FY25 level. This reflects and accounts for the annual labor rate escalation factors inherent in the Program Management Office (PMO) Advisory and Administrative Support (A&AS) contracts and the Inter-Agency Agreement with USDA for Enterprise Application Services (EAS).											
Accomplishments/Planned Programs Subtotals							22.964	28.995	29.277		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 03 834010: <i>General Information Technology</i>	0.718	1.509	2.329	-	2.329	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy Built upon the Defense Information Systems Agency's (DISA) Integrated Defense Enterprise Acquisition System (IDEAS) contract writing system, CON-IT is based on a Government-off-the-Shelf product running on a Commercial Off-the-Shelf platform. Through an interagency agreement, the DAF partnered with the United States Department of Agriculture's (USDA) Enterprise Application Services (EAS) team to develop, test, validate, deploy, and maintain CON-IT. The USDA Digital Infrastructure Services Center currently provides and maintains hosting for the development and test environments in USDA's Enterprise Data Centers. The program migrated to cloud data hosting on the Air Force's Cloud One architecture in FY24. The Identity, Credential, and Access Management (ICAM) solution of SailPoint was implemented during a soft roll out in 1QFY25 with a full roll out to the contracting community expected in 4QFY25. In the future the Procurement Integrated Enterprise Environment (PIEE) platform is being considered as the hosting environment for CON-IT. In accordance with DoDI 5000.75, the program management office (PMO) and the functional management office (FMO) are jointly accountable for the successful delivery of business process design through business system deployment and capability support. CON-IT is developed using agile software development principles. Requirements are envisioned at a high level, then decomposed into small pieces of effort to allow for just-in-time development and maximum flexibility to meet emerging needs. A Minimum Viable Product (MVP) is developed and fielded to satisfy bare-minimum user requirements. As development continues, the DAF will deliver iterative releases to mature the MVP. This commonly-used practice in the commercial industry speeds time to market and allows for rapid reprioritization of requirements based on external influences (e.g., warfighter needs, cybersecurity threats).											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0901410F / <i>Contracting Information Technology System</i>	
CON-IT implements the OSD Strategic Plan for Defense-Wide Procurement Capabilities to employ the Procurement Data Standard mandated by Section 862 of the FY13 NDAA.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0901410F / Contracting Information Technology System				Project (Number/Name) 643483 / CON-IT					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CON-IT: New Software Capability Development	MIPR	USDA : Various	-	12.615	Dec 2023	15.468	Dec 2024	15.498	Dec 2025	-		15.498	-	-	-
CON-IT: Architecture, SE/PM, and Compliance	MIPR	USDA : Various	-	3.530	Dec 2023	5.159	Dec 2024	5.169	Dec 2025	-		5.169	-	-	-
CON-IT: Platform DevSecOps	MIPR	USDA : Various	-	1.049	Dec 2023	1.954	Dec 2024	1.957	Dec 2025	-		1.957	-	-	-
CON-IT: Other Direct Costs	MIPR	USDA : Various	-	0.657	Dec 2023	0.575	Dec 2024	0.597	Dec 2025	-		0.597	-	-	-
Subtotal			-	17.851		23.156		23.221		-		23.221	-	-	N/A
Remarks															
Interagency agreement with USDA (United States Department of Agriculture) Architecture, SE/PM, and Compliance: Enterprise, application and DevOps Architecture; Systems Engineering; Program Management; and Compliance Updates. Other Direct Costs include procurement and support of software licenses for development tools and software developer travel.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CON-IT: Program Support, Cost Estimating Support, Travel, Supplies, Equipment, Program Office Network	Various	PEO Business Sys (AFLCMC) : WPAFB, OH	-	5.113	Dec 2023	5.839	Dec 2024	6.056	Dec 2025	-		6.056	-	-	-
Subtotal			-	5.113		5.839		6.056		-		6.056	-	-	N/A
Remarks															
A&AS: Advisory & Assistance Services Multiple contract awards AFPEO/Business & Enterprise Systems (AFLCMC/GB) - Wright-Patterson AFB, OH															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025			
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0901410F / Contracting Information Technology System					Project (Number/Name) 643483 / CON-IT				
		Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		-	22.964		28.995		29.277		-		29.277	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025							
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0901410F / Contracting Information Technology System								Project (Number/Name) 643483 / CON-IT			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
CON-IT Capability Development Activities																												
Capability 5: Develop, Test, and Deploy Classified Capability																												
Capability 6: Plan, Develop, Test, and Deploy R&D Capability																												
Capability 7: Plan, Develop, Test, and Deploy E-Filing Capability																												
Capability 8: Plan, Develop, Test, and Deploy Logistics Capability																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0901410F / Contracting Information Technology System	Project (Number/Name) 643483 / CON-IT	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CON-IT Capability Development Activities				
Capability 5: Develop, Test, and Deploy Classified Capability	1	2024	2	2025
Capability 6: Plan, Develop, Test, and Deploy R&D Capability	1	2024	2	2026
Capability 7: Plan, Develop, Test, and Deploy E-Filing Capability	1	2024	2	2026
Capability 8: Plan, Develop, Test, and Deploy Logistics Capability	3	2026	2	2028

Note

eFiling MVP will slip into the 2QFY26 due to \$800k funding reduction.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 1206415F / <i>U.S. Space Command Research and Development Support</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	8.782	24.446	36.913	0.000	36.913	-	-	-	-	-	-
641234: <i>USSPACECOM Rapid Prototype Demonstration</i>	0.000	8.782	24.446	36.913	0.000	36.913	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

U.S. Space Command Research and Development support program integrates existing space-based capabilities from the Services and the Intelligence Community, overlaid with national laboratory and Commercial/Industry innovations, leveraging Joint Space rapid experimentation and demonstrations to build a comprehensive military advantage in Space. Promoting responsible behaviors in space, advocating for greater space capabilities, and collaborating with Industry partners are foundational to achieving National Space objectives. This shall be accomplished by accelerating technology demonstrations and rapid operational prototyping, plus assessing current and future space-based effects via model-based analysis. Moreover, this program supports the National Space Policy of the United States of America, "to demonstrate United States leadership in space-related fora and activities to strengthen deterrence and assure allies and partners of its commitment to preserving the safety, stability, security, and long-term sustainability of space activities."

NAVWAR, the management of PNT information, requires a coordinated employment of space, cyberspace, and electromagnetic warfare (EW) capabilities, enabled by intelligence, surveillance, and reconnaissance (ISR) and electromagnetic spectrum (EMS) management. Funds are used to develop and integrate NAVWAR offensive and defensive capabilities and to create and maintain NAVWAR knowledge, and tactics, techniques and procedures (TTP) to ensure NAVWAR superiority across the DoD. Additional responsibilities include advocating for and providing space capabilities such as PNT information to CCMDs, allies, partners and other entities, as directed.

The Lighthouse program shall integrate SDA net with all of the space domain awareness (SDA) sensors required to increase SDA data availability for kill chain closure. This includes upgrades to SDA coverage to reduce coverage gaps. Lack of funding for Lighthouse will result in sensors remaining on the legacy 1980s communication infrastructure whose data rates and data formats do not support timely transfer of information required to address.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 1206415F I U.S. Space Command Research and Development Support			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	14.892	28.392	29.093	0.000	29.093
Current President's Budget	8.782	24.446	36.913	0.000	36.913
Total Adjustments	-6.110	-3.946	7.820	0.000	7.820
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-6.000	-3.946			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.110	0.000	7.820	0.000	7.820

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Res earch and Development Support				Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
641234: USSPACECOM Rapid Prototype Demonstration	0.000	8.782	24.446	36.913	0.000	36.913	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

U.S. Space Command Research and Development support program integrates existing space-based capabilities from the Services and the Intelligence Community, overlaid with national laboratory and Commercial/Industry innovations, leveraging Joint Space rapid experimentation and demonstrations to build a comprehensive military advantage in Space. Promoting responsible behaviors in space, advocating for greater space capabilities, and collaborating with Industry partners are foundational to achieving National Space objectives. This shall be accomplished by accelerating technology demonstrations and rapid operational prototyping, plus assessing current and future space-based effects via model-based analysis. Moreover, this program supports the National Space Policy of the United States of America, "to demonstrate United States leadership in space-related fora and activities to strengthen deterrence and assure allies and partners of its commitment to preserving the safety, stability, security, and long-term sustainability of space activities."

NAVWAR, the management of PNT information, requires a coordinated employment of space, cyberspace, and electromagnetic warfare (EW) capabilities, enabled by intelligence, surveillance, and reconnaissance (ISR) and electromagnetic spectrum (EMS) management. Funds are used to develop and integrate NAVWAR offensive and defensive capabilities and to create and maintain NAVWAR knowledge, and tactics, techniques and procedures (TTP) to ensure NAVWAR superiority across the DoD. Additional responsibilities include advocating for and providing space capabilities such as PNT information to CCMDs, allies, partners and other entities, as directed.

The Lighthouse program shall integrate SDA net with all of the space domain awareness (SDA) sensors required to increase SDA data availability for kill chain closure. This includes upgrades to SDA coverage to reduce coverage gaps. Lack of funding for Lighthouse will result in sensors remaining on the legacy 1980s communication infrastructure whose data rates and data formats do not support timely transfer of information required to address.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Classified Space Threat-Based Studies and Analysis	0.000	4.764	6.800
Description: To meet the Commander's objectives under Prepare and Posture, Counter Threats, and Expand Competitive Warfighting Advantage, leverage highly technical expertise from across the Nation's Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research Centers (UARCs), National Laboratories, Service Laboratories, and Agency Laboratories, to provide extensive analytical, engineering, and highly technical intelligence expertise to various USSPACECOM efforts, and provide professional and qualified science and technology and advanced concepts support.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Research and Development Support		Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
Focus study, analysis, research and engineering activities from Federally Funded Research and Development Centers (FFRDCs), UARCs, National Laboratories, OSD and DoD Laboratories, Academia and industry partners to identify suitable technology and concepts for rapid innovation and closure of UCP capability gaps against advanced threats.					
FY 2026 Plans: Bring highly technical expertise to bear against the hardest problems of space- domain operations and Joint Emerging Operational Needs (JEONs) in a way that cannot be provided by industry, academia, or assigned staff. Projects must align to the CDRUSSPACECOM's Strategic Vision, Campaign Plan, and JWC; and must close severe vulnerabilities and/or immediate operational gaps within 24 months. Subject Matter Experts (SME) support to J813 for technical reviews of OUSD, Service, and Agency capability demonstrations, project reviews, and technical interchanges for project endorsement and advocacy.					
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to increase in requirements.					
Title: Commercial Capability Platform Integration into USSPACECOM Operations			0.000	0.250	1.250
Description: Meet the Commander's objectives to Strengthen Relationships, capitalize on Industry Innovations to Develop future technical capabilities via Accelerator/Incubator collaboration, derived from risk-reduction modeling of space effects, and sustain focus areas where Government stakeholders, small businesses, traditional and non-traditional DoD contractors, universities, and other non-federal entities can collaborate and demonstrate capabilities.					
FY 2025 Plans: Provide an environment for commercial partner collaboration; and threat and information sharing.					
FY 2026 Plans: Provide an environment for commercial partner collaboration; and threat and information sharing.					
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to inflation.					
Title: Contested Space Modeling for Capabilities, Analysis, and Verification Environment (CAVE)			4.302	5.054	11.820
Description: The CAVE consists of a modeling and simulation environment that was established starting in FY22 to assist with meeting the commander's vision and the J8 assigned tasks outlined in the theater campaign plan, exercises, and operations. The CAVE modeling and simulation capabilities support the analysis of the Commander's strategic planning, wargaming, experimentation, exercises, and requirements development and analysis, and leverage work completed across the space portfolio to provide quick turn analysis efforts.					
FY 2025 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Research and Development Support	Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
Improve software tool baseline for CAVE and update red, blue, grey and green model development; continue to integrate accurate models of the contested and congested space environment; Continue to develop and extend modeling techniques, including advancements in artificial intelligence and machine learning throughout the operations centers; Evaluate space system emerging concepts resiliency, survivability, effectiveness, and lethality impacts against campaign plan measures of effectiveness and performance; Leverage model-based gap assessments of current and future space-based effects to effect technology demonstrations and rapid operational prototyping opportunities; Implement COAs to support efficiency gains and improvements in space C5ISR, battlespace awareness, and data fusion; Examine pathfinder solutions and demonstrate the utility of sustained space operations (e.g., sustained space maneuver); Analyze on-orbit satellite capabilities and contribution to USSPACECOM defense and resilience against advanced threats. FY 2026 Plans: Baseline development of software and tools to model contested space - Baseline software, tools, models, and data at the mission- and campaign-level to inform senior leaders evolving inquiries and decisions on space investments, requirements, acquisition, operational COAs, operational risk, and future planning; Baseline front-end campaign-level and mission-level M&S software and tools supporting sufficiently accurate and very timely exploratory analytics to optimize operational planning, wargaming, and concepts; Leverage model-based analysis of current and future space-based effects to effect technology demonstrations and rapid operational prototyping opportunities; Capitalize on Industry Innovations to Develop future technical capabilities via Accelerator/Incubator collaboration, derived from risk-reduction modeling of space effects; In coordination with USSF/S9, continue assessing and integrating enterprise-level model data for MW, ISR, and SATCOM capabilities into campaign-level modeling; Support cost benefit analyses of space Control activities with quantifiable impacts to warfighter operations. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to increase in requirements to reach FOC.					
Title: Space Operations Application Prototyping and Integration Description: Develop and operationalize commercial-based capabilities within the command to support the Commander's two key objectives: Protect and Defend and Expand Competitive Warfighting Advantage. This effort includes the integration of international and commercial capabilities within the command, and the stand up a USSPACECOM Technology Transfer program, which allows the Command to sign T2 agreements with non-federal entities, including Joint Commercial Operations (JCO) and Commercial Integration Cell (CIC) partners, establish PIAs to support initial transition of Command developed software applications into operational support. FY 2025 Plans:			0.000	3.000	4.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Research and Development Support	Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
Baseline USSPACECOM Technology Transfer program; begin spin-in and spin-out of technologies from and to industry FY 2026 Plans: Commercial capability integration into USSPACECOM systems. Exercise CDRUSSPACECOM's ability to support technology transition and transfer between academia, laboratories, international partners and industry; Bridge acquisition gap; Spin in and spin out capabilities; Commercial integration. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to establishment of Technology Transfer program.					
Title: Space Operations Research, Development, and Experimentation Description: Conduct short-term classified studies, science and technology (S&T) and Research and Development (R&D) demonstrations, experiments, and rapid operational prototyping to meet the Commanders priority to Counter Threats. FY 2025 Plans: Support USSPACECOM classified requirements, provide extensive analytical, engineering, and technical intelligence expertise to various USSPACECOM efforts special mission analysis, research, test, evaluation and collection. FY 2026 Plans: Providing Science and Technology (S&T), Research and Development (R&D) rapid prototyping design, development, integration, demonstration, and test; Conduct various space and ground-based propulsion, battle management command, control, computers, communication, and intelligence surveillance and reconnaissance (C5ISR), electronic warfare, and space superiority studies, experiments, JEONs and demonstrations. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to key priorities to include integrated space fires, resilient, timely operational space command and control, missile defeat effects, enhanced battle space awareness, space systems cyber defense.			0.000	8.528	9.893
Title: PNT Operational Assessments Description: The JNWC will investigate, operationally assess, and simulate current, emerging, and potential threats and mitigation strategies for denial of blue force PNT capabilities as well as preventing the hostile use of PNT information. Major Performers - Best value to the government selected contractors, universities, government facilities, federally funded research and development centers, laboratories, or other organizations. FY 2025 Plans:			0.000	0.650	0.650

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 1206415F / <i>U.S. Space Command Research and Development Support</i>	Project (Number/Name) 641234 / <i>USSPACECOM Rapid Prototype Demonstration</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Execution of operational assessments in live open-air, laboratory hardware in the loop, simulation, and anechoic chamber environments to assess advanced and potential PNT threats and assist in development of tactics, techniques and procedures[TTP] to mitigate these threats.				
Continued evaluation of innovative technologies to prevent the hostile use of PNT information and rapidly develop and present NAVWAR playbook options for the joint force; including modeling and simulation tools to enable NAVWAR operations.				
FY 2026 Plans: Develop NAVWAR defeat techniques that are applicable to the Indo Pacific AOR.				
Procure modeling and simulation capabilities for a special program certified test environment.				
FY 2025 to FY 2026 Increase/Decrease Statement: Decrease due to Joint Navigational Warfare Center (JNWC) is conducting operational assessments and minimal developmental and prototyping efforts.				
Title: Lighthouse		4.480	2.200	2.500
Description: Lighthouse is a classified project. It will integrate and upgrade sensors.				
FY 2025 Plans: Advanced Research Project Agency (ARPA) Long-range tracking and instrumentation radar (ALTAIR) integration into SDA network				
Addition of sensors at Eglin AFB into SDA network Begin testing of machine-to-machine tasking and testing with sensors over the Ballistic Communication Network (BCN) Begin to upgrade Cobra Dane for integration into SDA network				
FY 2026 Plans: Continued testing of sensors and machine-to-machine tasking to enhance command and control of sensors Incorporating Upgraded Early Warning Radar into BCN Develop sensor management procedures to deconflict scheduled sensor downtime for Lighthouse integration purposes				
FY 2025 to FY 2026 Increase/Decrease Statement: Increased funding to cover increased development and testing costs.				
Accomplishments/Planned Programs Subtotals		8.782	24.446	36.913

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Research and Development Support	Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy Any new projects funded in this program will be awarded using competitive procedures to the maximum extent possible.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Research and Development Support						Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Space Operations Application Prototyping and Integration	MIPR	Various : TBD	-	1.151	Apr 2024	3.582		3.000		-		3.000	-	-	-
Space Operations Research, Development and Experimentation	MIPR	GTRI, USARMY, NRL Various : Colorado Springs, CO	-	1.579		1.000		15.000		-		15.000	-	-	-
Position Navigation and Timing Operational Field Assessments	MIPR	CECOM : Offutt AFB, NE	-	-		0.650	Oct 2024	0.650	Oct 2025	-		0.650	-	-	-
Subtotal			-	2.730		5.232		18.650		-		18.650	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Contested Space Modeling for Capabilities, Analysis, and Verification Environment (CAVE)	Reqn	Galapagos, SPA, Parsons : Colorado Springs, CO	-	0.538		8.000		9.678		-		9.678	-	-	-
Lighthouse	MIPR	GSA/FAS/FEDSIM : TBD	-	4.005	Jan 2024	2.200	Jan 2025	2.500	Jan 2026	-		2.500	-	-	-
Subtotal			-	4.543		10.200		12.178		-		12.178	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Classified Space Threat-Based Studies and Analysis	MIPR	FFRDC/UARC, SPA : Colorado Springs, CO	-	1.500	Oct 2023	8.764	Nov 2024	5.835		-		5.835	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Research and Development Support						Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Commercial Capability Integration Platform Integration into USSPACECOM Operations	C/CPAF	CCTI : Colorado Springs, CO	-	0.009	Jan 2024	0.250	Jul 2025	0.250	Jul 2026	-		0.250	-	-	-
Subtotal			-	1.509		9.014		6.085		-		6.085	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	8.782		24.446		36.913		-		36.913	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)		Project (Number/Name)	
3600 / 4		PE 1206415F / U.S. Space Command Research and Development Support		641234 / USSPACECOM Rapid Prototype Demonstration	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Contested Space RDT&E																												
Classified Space Threat-Based Studies and Analysis																												
Commercial Capability Platform Integration into USSPACECOM Operations																												
Contested Space Modeling for Capabilities, Analysis, and Verification Environment (CAVE)																												
Space Operations Application Prototyping and Integration																												
Space Operations Research, Development, and Experimentation																												
Navigation Warfare (NAVWAR)																												
NAVWAR Operational Field Assessments																												
Create / Maintain NAVWAR Knowledge																												
NAVWAR Operational and CONOPS Events																												
Lighthouse																												
Integrate/Upgrade Sensors																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 1206415F / U.S. Space Command Research and Development Support	Project (Number/Name) 641234 / USSPACECOM Rapid Prototype Demonstration	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Contested Space RDT&E				
Classified Space Threat-Based Studies and Analysis	1	2024	4	2030
Commercial Capability Platform Integration into USSPACECOM Operations	1	2024	4	2030
Contested Space Modeling for Capabilities, Analysis, and Verification Environment (CAVE)	1	2024	4	2030
Space Operations Application Prototyping and Integration	4	2025	4	2030
Space Operations Research, Development, and Experimentation	1	2024	4	2030
Navigation Warfare (NAVWAR)				
NAVWAR Operational Field Assessments	1	2024	4	2030
Create / Maintain NAVWAR Knowledge	1	2024	4	2030
NAVWAR Operational and CONOPS Events	1	2024	4	2030
Lighthouse				
Integrate/Upgrade Sensors	1	2024	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					PE 0604200F I Future Advanced Weapon Analysis & Programs							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	9.589	7.205	36.125	0.000	36.125	-	-	-	-	-	-
653133: Armament Subsystems	0.000	9.589	7.205	36.125	0.000	36.125	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Future Advanced Weapon Analysis & Programs enables Air Force enterprise weapons capability planning through the generation and execution of new and emerging requirements and trade space analysis. Inclusively, this necessitates the studies of emerging weapons system gaps and technology insertion for legacy and future systems, responsive design and development engineering, and emerging weapon system gaps and technology insertion for legacy and future systems. These studies also support the determination, exploration, and execution of feasible solutions through advanced technology prototype development and rapid fielding. Additionally, projects in this program element implement the Digital Acquisition tenants of Open, Agile, and Digital in support of all Air Force weapons by conducting high fidelity Modeling, Simulation and Analysis (MS&A) to support the development, testing, and evaluation of future concept and legacy weapons.

Efforts under this program element explore new and future concept developments and analyses in response to stakeholder engagements, technology transitions and common enterprise needs, experimentation, air to ground, ground to launch, and air to air fieldable demonstrations and solutions, and the delivery of quick reaction material solutions. The overall objective is to identify methods to improve weapon system performance, develop potential future designs, mitigate evolving threats, pursue low-cost/affordable weapons solutions, and reduce life cycle costs. These projects will also develop and expand MS&A and experimental platforms for weapon qualification activities, improve safety, identify technology gaps, and ensure viability and durability of future weapons programs.

This effort includes design, development, test, integration, and implementation of appropriate modular open systems approach, related components, and efforts, such as, but not limited to electrical, logical, and physical interfaces defined in current and future updates to the Weapon Open System Architecture (WOSA) standard. This approach allows modular and severable subsystems, to include those that are software-defined, at the appropriate level to be incrementally added, removed, or replaced throughout the life cycle.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$101 thousand was expended for civilian pay expenses in this program element, and in FY 2025 \$134 thousand is forecast for civilian pay expenses in this program element.

The FY 2026 request was reduced by \$570 thousand for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604200F I Future Advanced Weapon Analysis & Programs				
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		9.757	7.205	36.879	0.000	36.879
Current President's Budget		9.589	7.205	36.125	0.000	36.125
Total Adjustments		-0.168	0.000	-0.754	0.000	-0.754
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-0.168	0.000			
• Other Adjustments		0.000	0.000	-0.754	0.000	-0.754
Change Summary Explanation						
No significant changes						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Capability Strategy Development				5.631	4.158	21.209
Description: Plans and executes early Systems Engineering, concept studies, trade space analyses, modeling & simulation (M&S), portfolio acquisition planning, agile acquisition strategies, common enterprise solutions, and risk reduction activities for future advanced weapon systems to defeat evolving threat scenarios and environments. Provides security, workspace/seating, and information technology capabilities to support mission needs. Collaborate with all program stakeholders to develop technical and investment strategies for future weapons. Create and develop a weapons operational reference architecture. Develops and maintains technology and capability roadmaps to inform strategy development.						
FY 2025 Plans:						
Conduct experiments and demonstrations of kinetic and directed energy weapon concepts to prove feasibility and facilitate transition in air to air, long range strike, and maritime strike mission areas. Evaluate industrial base implementation of agile acquisition initiatives like open systems architecture and digital engineering for future capabilities.						
FY 2026 Plans:						
Making progress with the Software Defined Radio, Common Flight Safety System and other projects directed to these efforts. Will continue to conduct experiments and demonstrations of kinetic and directed energy weapon concepts to prove feasibility and						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604200F / <i>Future Advanced Weapon Analysis & Programs</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
facilitate transition in air to air, long range strike, and maritime strike mission areas. Evaluate industrial base implementation of agile acquisition initiatives like open systems architecture and digital engineering for future capabilities. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased for continuous munitions analysis with multiple vendors and full funding for projects like the Software Defined Radio and Common Flight Safety System.				
Title: Warfighter Analytics Description: Enables the conduct of rapid acquisition/prototyping efforts and MS&A validation through integration of empirical data derived from MS&A, prototypes and demonstrations, shaped by stakeholder engagements. FY 2025 Plans: Prototyping weapon system and subsystem concepts to demonstrate and assess feasibility of key attributes and initiate test planning with key stakeholders. Developing armament concepts with effects that are appropriately represented in wargames/flag exercises. Establish new M&S capabilities, expand modeling to predict and better validate products. FY 2026 Plans: Conduct multiple analytical assessments of defense planning scenario 2.1 with key stakeholders. Assess Analysis of Alternatives results to prototype weapon system and subsystem concepts and assess feasibility of key attributes and initiate acquisition and test planning with key stakeholders. Transition armament concepts with effects to program office, wargames and flag exercises. Establish new M&S capabilities to expand modeling to predict and better validate products. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased to address a need for advanced warhead technologies, advanced manufacturing, and artificial intelligence		2.276	1.805	9.238
Title: Modeling, Simulation, and Analysis Description: Provides model-based systems engineering, M&S, data analysis tool suites, and associated software engineering expertise to support weapons capability strategy development and rapid prototyping. Provides Validation & Verification (V&V) of contractor M&S models and tools. Develops guidance, Navigation, and Control (GNC) and weapon survivability analysis capabilities. Creates and maintains a searchable electronic weapons database. Develops and evaluates future weapon open system architectures, to include common enterprise solutions, and the employment of digital engineering tools to create future acquisition strategies. FY 2025 Plans:		0.628	0.464	2.374

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604200F <i>I Future Advanced Weapon Analysis & Programs</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Conduct lethality analysis to support the development, testing, and evaluation of legacy and future weapon concepts. Work includes physics, engineering, engagement/mission level MS&A and efforts to characterize complex systems, provide independent analysis in mission areas such as long-range strike. Establish new M&S capabilities. FY 2026 Plans: Making progress with the Munitions Crosscutting Operation Enabler Effort and the Stand Off Attack Weapon Analysis of Alternatives process. Will continue to conduct lethality analysis to support the development, testing, and evaluation of legacy and future weapon concepts. Work includes physics, engineering, engagement/mission level MS&A and efforts to characterize complex systems, provide independent analysis in mission areas such as long-range strike. Establish new M&S capabilities. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to increased Modeling, Simulation & Analysis demand to support continuous munitions analysis.				
Title: Industry Connectivity/Technology Transitions Description: Enables Air Force outreach to small and large businesses to solicit innovative and relevant common material solutions for future weapon initiatives. This includes planning and execution activities for the development of campaign analysis, rapid innovation events, communicating technology needs at industry conferences (i.e. Weapons Conference, Air Force Association Symposium), and evaluating industry submissions for innovative technologies. Demonstrate potential utility of innovative technologies from Small Business Innovation Research (SBIR) contracts, studies, campaign analyses, experiments, and prototypes. Ensure alignment of S&T activities, acquisition efforts, and warfighter requirements for air-delivered munitions with Air Force, government, and industry stakeholders to enable technology transitions. FY 2025 Plans: Demonstrate utility of innovative technologies for weapons-related contracts, studies, campaign analysis and experiments, as well as management of the digital outreach required to meet these objectives. Examine how new digital acquisition programs can meet air to air, long range strike, and maritime strike mission areas to fulfill urgent warfighter requirements focusing on network collaborative autonomous, guidance and control, test and training, and direct attack. FY 2026 Plans: Making progress with our Technology Days and the Industry Outreach Contract and the Air Force Association Booth displays that draw in vendors and contractors developing new efforts. Will continue to demonstrate utility of innovative technologies for weapons-related contracts, studies, campaign analysis and experiments, as well as management of the digital outreach required to meet these objectives. Examine how new digital acquisition programs can meet air to air, long range strike, and maritime strike		1.054	0.778	3.304

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604200F I Future Advanced Weapon Analysis & Programs		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
mission areas. to fulfill urgent warfighter requirements focusing on network collaborative autonomous, guidance and control, test and training, and direct attack.				
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased to include Air and Space Force's Association show costs and external engagements related to the industry events.				
Accomplishments/Planned Programs Subtotals		9.589	7.205	36.125
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy Accomplish studies, analyses, concept development and engineering, as well as test and evaluation; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604200F / Future Advanced Weapon A nalysis & Programs				Project (Number/Name) 653133 / Armament Subsystems					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Affordable Mass & Concept Studies	C/Various	Various : Various	-	4.605	Apr 2024	2.984	Apr 2025	15.707	Jan 2026	-		15.707	-	-	-
Future Weapons Open System Architecture	Various	Various : Various	-	0.569	Dec 2023	0.117	Nov 2024	6.703	Jan 2026	-		6.703	-	-	-
Subtotal			-	5.174		3.101		22.410		-		22.410	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Systems Engineering & Studies Support	C/Various	AFLCMC/EB : Eglin AFB, FL	-	1.594	Apr 2024	2.034	Apr 2025	3.934	Jan 2026	-		3.934	-	-	-
Modeling & Simulation Licenses & Support	C/Various	AFLCMC/EB : Eglin AFB, FL	-	0.187	May 2024	0.243	May 2025	1.500	Jan 2026	-		1.500	-	-	-
Direct Cite Authority Civilian Pay	Allot	AFLCMC/EBZ : Eglin AFB, FL	-	0.149	Oct 2023	0.155	Oct 2024	0.162	Oct 2025	-		0.162	-	-	-
Subtotal			-	1.930		2.432		5.596		-		5.596	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Government Test and Evaluation	PO	Various : Various	-	0.021	Apr 2024	0.025	Apr 2025	0.100	Jan 2026	-		0.100	-	-	-
Subtotal			-	0.021		0.025		0.100		-		0.100	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604200F / Future Advanced Weapon A nalysis & Programs				Project (Number/Name) 653133 / Armament Subsystems					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Government Program Management Administration	Various	Various : Eglin AFB, FL	-	2.464	Oct 2023	1.647	Oct 2024	8.019	Oct 2025	-		8.019	-	-	-
Subtotal			-	2.464		1.647		8.019		-		8.019	-	-	N/A
Remarks Includes A&AS contract, IT requirements, travel, and office supplies.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.589		7.205		36.125		-		36.125	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025							
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0604200F / Future Advanced Weapon A nalysis & Programs								Project (Number/Name) 653133 / Armament Subsystems							

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 5

R-1 Program Element (Number/Name)

PE 0604200F / Future Advanced Weapon Analysis & Programs

Project (Number/Name)

653133 / Armament Subsystems

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Capability Strategy Development				
Air Superiority, Global Precision Attack, and Base Defense Requirements Analyses	2	2024	4	2030
Future Weapons Open System Architecture	2	2024	4	2030
Trade Space Analysis Framework	2	2024	4	2030
Common Enterprise Solutions	2	2024	4	2030
Technology and Capability Roadmaps	2	2024	4	2030
Warfighter Analytics				
Weapon Subsystem Prototype Demonstrations	2	2024	4	2030
Subsystem Prototype Development Activities	2	2024	4	2030
Capability Demonstrations	2	2024	4	2030
Modeling, Simulation, and Analysis				
Lethality, GNC & Survivability Modeling, Simulation and Analysis	2	2024	4	2030
Analysis Database Repository	2	2024	4	2030
Model-Based Systems Engineering Foundation	2	2024	4	2030
Weapon Open System Architecture Built-In	2	2024	4	2030
Industry Connectivity				
Futures Workshops, Concepts Studies	2	2024	4	2030
Threat Day Events, Innovation Days	2	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0604201F / PNT Resiliency, Mods, and Improvements							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	171.555	214.900	125.663	0.000	125.663	-	-	-	-	-	-
651030: <i>GPS Receiver Development</i>	0.000	171.555	214.900	125.663	0.000	125.663	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Positioning, Navigation, and Timing (PNT) solutions are critical to offensive and defensive operations, enabling delivery of precision fires, safe aerial navigation, and time coordination across multiple platforms and subsystems. PNT must be maintained in the face of emerging and continuously evolving adversarial electronic and cyber threats, requiring increased system resiliency and rapid adaptability. Evolving threats will drive upgrades such as Global Positioning System (GPS) receiver modernization, development of standard navigational system formats/interfaces, increased use of open system architecture design principles, incorporation of alternative navigation sources into navigational solutions, advanced anti-jam antennas, antenna electronics, radio frequency monitoring/locating/reporting capabilities, and precision clock improvements to maintain current and future force capabilities.

Project 651030 includes Embedded GPS/Inertial Navigation System (INS) Modernized (EGI-M), Miniaturized Airborne GPS Receiver 2000 Modernization (MAGR-2K-M), Resilient GPS (R-EGI) development, PNT Software Defined User Equipment (PNT SDUE), anti-jam antenna/antenna electronics development, situational awareness devices, and other advanced/non-GPS PNT solutions. Activities also include, but are not limited to, current program planning, rapid prototyping/advanced technology and concept development, execution, and future program planning and support to other GPS enabled systems as required, covered within Budget Activities 6.3, 6.4, and 6.5. The PNT Resiliency, Mods, and Improvements (RMI) effort provides rapidly re-programmable application space for Alternate Satellite Navigation Systems User Equipment (UE), enabling agile and resilient response to GPS threat environments. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY2024 5.122M was expended for civilian pay expenses in this program element, in FY2024 6.001M was expended for civilian pay expenses in this program element, and in FY25, 10.899M is forecasted for civilian pay expenses in this program element.

The FY 2026 cost of Middle Tier of Acquisition (MTA) effort PNT is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify Future Years Defense Program (FYDP) funding in a future budget submission.

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025					
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.								
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total		
Previous President's Budget		163.156	217.662	126.611	0.000	126.611		
Current President's Budget		171.555	214.900	125.663	0.000	125.663		
Total Adjustments		8.399	-2.762	-0.948	0.000	-0.948		
• Congressional General Reductions		0.000	0.000					
• Congressional Directed Reductions		-2.000	-2.762					
• Congressional Rescissions		0.000	0.000					
• Congressional Adds		0.000	0.000					
• Congressional Directed Transfers		0.000	0.000					
• Reprogrammings		14.999	0.000					
• SBIR/STTR Transfer		-4.600	0.000					
• Other Adjustments		0.000	0.000	-0.948	0.000	-0.948		
Change Summary Explanation								
FY24 reduced by \$2.000M for R-EGI Federally Funded Research and Development Center (FFRDC) support unjustified growth; maximized flex-in \$14.999M Below Threshold Reprogramming. SBIR/STTR reduction \$4.600M.								
FY25 reduced by \$2.762M for SDUE Federally Funded Research and Development Center (FFRDC) support unjustified growth.								
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Embedded GPS/INS - Modernized (EGI-M)				22.346	17.100	10.990	0.000	10.990
Description: EGI-M is a combined INS/GPS aircraft position, navigation, and timing system. The program upgrades the legacy EGI design to enhance resiliency against existing and emerging adversarial navigational warfare threats. Design features, such as interface standardization and software modularity to incorporate alternative navigation and timing sources, aim to reduce DoD cost and timelines to respond to newly identified threats and enhance current force capabilities. EGI-M incorporates M-Code and Automatic Dependent Surveillance-Broadcast (ADS-B) Out compliance capability into EGI receivers while addressing parts obsolescence, reducing configuration count from 260+ to a desired end-state of 16, and decreasing production and sustainment costs.								

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
The Northrop Grumman is now the sole prime contractor for EGI-M. The Air Force did not extend Honeywell's contract due to underperformance. FY 2025 Plans: - Complete Spiral 1 Software Development. - Begin LN-351 Hardware Qualification. - Begin hardware redesigns of three Circuit Card Assemblies. FY 2026 Base Plans: - Complete Spiral 1 Formal Qualification Testing. - Continue Spiral 2 Software Development. - Begin LN-351 PRU system deliveries. FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding decrease due to not extending contract with Honeywell.						
Title: Miniaturized Airborne GPS Receiver 2000 - Modernization (MAGR-2K-M) Description: MAGR-2K-M is an aircraft GPS receiver. The program increases MAGR-2K legacy resiliency against existing and emerging adversarial navigational warfare threats while reducing cost and timelines to incorporate future capabilities in response to emerging threats. MAGR-2K-M incorporates M-Code capability into MAGR-2K legacy receivers while addressing parts obsolescence and providing a pathway to ADS-B Out implementation. Military code (M-code) was designed to further improve the anti-jamming capabilities and secure access of the military GPS signals. Since M-code is transmitted in frequencies already in use by previous military codes, a modernized GPS will deliver improved capability to counter current and emerging PNT threats and enable military operations in a Navigation Warfare environment where current legacy receiver performance would be compromised. FY 2025 Plans: - Continue to prepare for Program Executive Office (PEO) certification (Milestone C), which enables platforms to procure MAGR 2K-M units for fielding. FY 2026 Base Plans:		13.000	5.000	6.000	0.000	6.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
- Program finalizing test and integration of latest GPS Receiver Application Model (GRAM) Software into the MAGR-2K-M receiver to prepare for fielding. - Continue preparing for PEO certification (Milestone C). FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase based on additional funds required for platform integration and testing.						
Title: PNT Resiliency, Mods, and Improvements (RMI) Description: Conduct studies and analysis of PNT systems and requirements, develop and evaluate alternative courses of action, identify, plan and conduct PNT technology transition projects, conduct prototype and acquisition program planning, and provide recommended solutions to DoD and Air Force decision makers relative to navigation warfare threat evolution and technology emergence. This includes work for more flexible Secure Software Defined Receiver User Equipment to include, but not limited to, developing an associated antenna electronics capability to capture other than GPS signals like Multi-Global Navigation Satellite Systems to include Navigation Technology Satellite-III and other commercial solutions. PNT resiliency and modernization is dependent upon continuous improvements to the PNT enterprise which includes, but is not limited to, operationalizing Military GPS User Equipment Increment 2 (MGUE Inc 2) and Regional Military Protection (RMP) capabilities. FY 2025 Plans: - Studies and advanced analysis of PNT systems and requirements will move toward completion. - Testing will support efforts to minimize level of risk as transition continues toward Alternative PNT (Alt-PNT) technologies into DoD PNT systems. - Team will develop and document internal interface design requirements, accommodating evaluation of existing systems. FY 2026 Base Plans: - Continue studies and advanced analysis of resilient PNT systems and requirements. - Conduct testing to support efforts to minimize level of risk as transition continues toward Alt-PNT technologies into DoD PNT systems.		2.000	2.000	1.086	0.000	1.086

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
- Continue to develop and document internal interface design requirements, accommodating evaluation of existing systems. FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to a slight reduction in planned studies and analysis						
Title: Resilient EGI (R-EGI) Description: Establishes a Government Reference Architecture (GRA) embodying modular open systems architecture (MOSA), enabling and accelerating the transition and operational insertion of future resilient PNT DoD capabilities. R-EGI delivers improved PNT resiliency through the rapid design, development, test, and transition of science and technology efforts to operational PNT systems. R-EGI enables the design and development of various aircraft PNT Line Replaceable Units (LRUs) that are rapidly upgradeable to counter evolving adversarial threats; the program demonstrates the GRA through prototyping of an open R-EGI LRU. The program matures, prototypes, and tests PNT technologies/systems and enables transition paths to flow new technologies into the R-EGI LRU and iterate as required to support the warfighter. FY 2025 Plans: - Complete Technical Readiness Review (TRR) and Level 3 Technical Data Package (TDP) in preparation for delivery of Post-MTA Production Ready Units (PRUs) and integration and test activities on lead platforms. - The FY25 milestones and efforts will serve as verification of the R-EGI LRU to prepare for qualification test and integration activities. FY 2026 Base Plans: - Complete testing and integration of Large Form Factor and Medium Form Factor PRUs to prepare for Milestone C decision and subsequent fielding. - Validation of software development to support a Level 3 TDP and Functional Configuration Audit/Physical Configuration Audit (FCA/PCA). FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement:		82.209	117.562	58.400	0.000	58.400

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Funding decreased due to completion of intensive engineering-based activities in FY2025, such as software development and integration as well as procurement of PRU hardware.						
Title: Positioning Navigation Timing Software Defined User Equipment (PNT SDUE) Description: PNT SDUE will develop a Satellite Navigation (SATNAV) Software Defined Receiver (SSDR) hosted on a Commercial Off-the-Shelf (COTS) Field Programmable Gate Array (FPGA) delivering an M-Code receiver with agile reprogramming capability to provide robust, resilient PNT against navigational warfare (NAVWAR) and cyber threats utilizing a government owned technical baseline. The program will also develop Software Defined Antenna Electronics (SDAE) utilizing COTS FPGA equipment to support the ingest of new satellite signals/capabilities, signal processing, and the incorporation of a Global Navigation Satellite System (GNSS) capability in a software reprogrammable environment. The GNSS receiver and antenna electronics will interface directly with R-EGI via modular open standard architecture. This program will transition and field advanced User Equipment capabilities for the Navigation Technology Satellite (NTS)-3 Air Force Vanguard effort. FY 2025 Plans: - Preliminary Design Review (PDR) will support on-going efforts. The focus of this year will be the development of the antenna electronics for meeting emergent needs and expediting production. FY 2026 Base Plans: - Continue Digital Engineering Other Transaction Authority (OTA) and Design Agent OTA efforts. - Activities include building and evaluating physical Software Defined Antenna Electronics (SDAE) prototypes and completing digital twin models for both the SDAE and Satellite Navigation Software Defined Receiver (SSDR). FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding decrease as a result of updated programmatic requirements in the out-years in compliance with new Acquisition Decision Memorandum.		52.000	73.238	49.187	0.000	49.187
Accomplishments/Planned Programs Subtotals		171.555	214.900	125.663	0.000	125.663
D. Other Program Funding Summary (\$ in Millions)						
N/A						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604201F / <i>PNT Resiliency, Mods, and Improvements</i>
D. Other Program Funding Summary (\$ in Millions)		
Remarks Navigation, Timing, Satellite 3 (NTS-3) Software Defined User Equipment (SDUE)/Soteria has been renamed to Positioning Navigation Timing Software Defined User Equipment (PNT SDUE) beginning FY2023 per signed Acquisition Decision Memorandum. Per FY2024 National Defense Authorization Act Section 1685(b), the Under Secretary of Defense for Acquisition and Sustainment shall treat the Positioning, Navigation, and Timing Resiliency, Modifications, and Improvements program of the Air Force (PE 0604201F) as an acquisition category 1D program, and the authority to manage such program may not be delegated. E. Acquisition Strategy Modify and modernize existing legacy PNT systems to incorporate major enhancements such as Global Positioning System (GPS) M-Code, ADS-B Out, and alternative PNT solutions to GPS while reducing lifecycle costs through common sustainment practices and economies of scale. Design, development, and testing efforts, to include the development of government owned reference architectures for rapid capability insertion, share a common PE to allow flexibility in funding and planning. Integration and operational testing of completed PNT solutions are accomplished by individual platforms and weapons systems. This approach uses cost plus fixed fee (CPFF) contract types based on acquisition phase and risk with a mix between competition and sole-source strategies. Modifications to legacy receivers are acquired via Engineering Change Proposals (ECP)/Task Orders on existing contracts. Other Transaction Authorities (OTA) and industry consortiums are used to support prototyping and open standards development for new PNT solutions.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604201F / PNT Resiliency, Mods, and Improvements				Project (Number/Name) 651030 / GPS Receiver Development					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
EGI-M EMD	SS/CPFF	Northrop Grumman : Woodland Hills, CA	-	12.687	Nov 2023	9.590	Oct 2024	7.990	Oct 2025	-		7.990	-	-	-
MAGR-2K-M	SS/CPFF	Raytheon : El Segundo, CA	-	13.000	Dec 2023	5.000	Oct 2024	3.000	Oct 2025	-		3.000	-	-	-
PNT RMI	SS/CPFF	Collins Aerospace : Des Moines, IA	-	2.000	Mar 2024	2.000	Mar 2025	2.000	Mar 2026	-		2.000	-	-	-
R-EGI Modernization & Additional Platforms	C/CPFF	TBD : TBD	-	68.997	Mar 2024	108.732	Jan 2025	39.332	Oct 2025	-		39.332	-	-	-
PNT SDUE Design Agent	C/CPFF	TBD : TBD	-	50.000	Mar 2024	46.531	Jan 2025	36.200	Jan 2026	-		36.200	-	-	-
Subtotal			-	146.684		171.853		88.522		-		88.522	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
EGI-M FFRDC	Various	MITRE Corp. : Bedford, MA	-	0.263	Dec 2023	0.100	Feb 2025	0.500	Feb 2026	-		0.500	-	-	-
R-EGI FFRDC	Various	MITRE Corp. : Bedford, MA	-	4.000	Dec 2023	4.000	Feb 2025	4.000	Feb 2026	-		4.000	-	-	-
PNT SDUE FFRDC	Various	MITRE Corp : Bedford, MA	-	2.000	Dec 2023	7.524	Feb 2025	7.500	Feb 2026	-		7.500	-	-	-
DCA Civ Pay	Allot	Allotment : Wright Patterson AFB, OH	-	9.500	Jan 2024	9.870	Oct 2024	10.000	Oct 2025	-		10.000	-	-	-
Subtotal			-	15.763		21.494		22.000		-		22.000	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
EGI-M	PO	Various : TBD	-	0.300	Nov 2023	1.500	Feb 2025	-		-		-	-	-	-
R-EGI	PO	Various : TBD	-	0.750	Mar 2024	0.797	Mar 2025	1.818	Mar 2026	-		1.818	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
3600 / 5						PE 0604201F / PNT Resiliency, Mods, and Improvements				651030 / GPS Receiver Development					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
R-EGI Modernization & Additional Platforms	Various	Various : TBD	-	-		1.050	Dec 2024	1.500	Dec 2025	-		1.500	-	-	-
PNT SDUE	Various	Various : TBD	-	-		8.649	Mar 2025	2.500	Mar 2026	-		2.500	-	-	-
Subtotal			-	1.050		11.996		5.818		-		5.818	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Strategic Planning/PMA	C/Various	SERCO : Robins AFB, GA	-	8.058	Oct 2023	9.557	Mar 2025	9.323	Mar 2026	-		9.323	-	-	-
Subtotal			-	8.058		9.557		9.323		-		9.323	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	171.555		214.900		125.663		-		125.663	-	-	N/A
Remarks															
FFRDC funding increased in FY2025 and continues through FY2026 to ramp up and complete an initial risk reduction effort that seeks to accelerate foundational work for the PNT Software Defined User Equipment (SDUE) acquisition program. This effort is defining an agile innovation process so that future capabilities can be more quickly integrated into the open architecture/reprogrammable components of the SDUE program of record.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 5								PE 0604201F / PNT Resiliency, Mods, and Improvements								651030 / GPS Receiver Development			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
PNT																												
EGI-M EMD (NGC)																												
EGI-M Modernization & Additional Platforms																												
MAGR-2K-M Flight Testing																												
MAGR-2K-M EMD																												
R-EGI Prototyping																												
R-EGI Modernization & Additional Platforms																												
PNT SDUE Technical Risk Reduction Efforts																												
PNT SDUE Prototyping																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604201F / PNT Resiliency, Mods, and Improvements	Project (Number/Name) 651030 / GPS Receiver Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
PNT				
EGI-M EMD (NGC)	1	2024	3	2026
EGI-M Modernization & Additional Platforms	2	2024	4	2028
MAGR-2K-M Flight Testing	1	2024	4	2025
MAGR-2K-M EMD	1	2024	1	2027
R-EGI Prototyping	1	2024	4	2024
R-EGI Modernization & Additional Platforms	1	2024	4	2030
PNT SDUE Technical Risk Reduction Efforts	1	2024	4	2025
PNT SDUE Prototyping	4	2024	4	2029

Note
Position Navigation and Timing (PNT) schedules updated to reflect current developmental timelines and reflect development for additional aircraft which will be utilizing modernized PNT receiver technology.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604222F I Nuclear Weapons Support							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	44.219	70.823	79.312	0.000	79.312	-	-	-	-	-	-
654236: Engineering Analysis	0.000	4.279	2.515	2.714	0.000	2.714	-	-	-	-	-	-
654807: Nuclear Weapon System Technology and Integration	0.000	37.944	66.307	74.437	0.000	74.437	-	-	-	-	-	-
655708: Nuclear Weapons Support	0.000	1.996	2.001	2.161	0.000	2.161	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Air Force Nuclear Weapons Center (AFNWC), Kirtland AFB, NM, is the primary executing agency for this program. The AFNWC is tasked with supporting and supplying technical expertise on all Air Force (AF) nuclear weapons and weapon systems. This program provides resources for technical and programmatic activities which include research, development, test, and evaluation of all nuclear equipment/systems, as well as performing independent analyses on all AF nuclear weapon systems and activities. These include weapon/system development, sustainment, interoperability, compatibility, safety, security, reliability, and cyber resiliency/security, nuclear stockpile certification management for all AF nuclear weapon systems, and nuclear enterprise architecture alignment.

The Air Force Safety Center (AFSEC), Kirtland AFB, NM, is the primary executing agency for nuclear weapons certification. The AFSEC is tasked with providing safety, control, and operational policy and independent assessments and expertise used for the US nuclear enterprise, US nuclear weapons and nuclear weapon system programs as well as security of nuclear weapon design information. This program provides resources for oversight, technical and programmatic activities which include research, development, test, and evaluation of all nuclear weapon related equipment/systems, as well as performing independent analyses on all AF nuclear weapon systems and activities using the industry representative software tools, databasing and Artificial Intelligence. These include participation in early nuclear weapon/system development, system assessments, risk analysis, sustainment actions, operations, trend analysis, safety, security, and cybersecurity, supply chain risk management, nuclear stockpile assessments for all AF nuclear weapon systems, and nuclear enterprise architecture alignment. This activity is shared with BPAC 654807 in this program element.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 0M was expended for civilian pay expenses in this program element, and in FY 2025 0M is forecasted for civilian pay expenses in this program element.

The FY 2026 request was reduced by 0.294 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604222F I Nuclear Weapons Support				
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		45.884	70.823	60.847	0.000	60.847
Current President's Budget		44.219	70.823	79.312	0.000	79.312
Total Adjustments		-1.665	0.000	18.465	0.000	18.465
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-1.665	0.000			
• Other Adjustments		0.000	0.000	18.465	0.000	18.465
Change Summary Explanation						
FY 2024 reduced by 0.088 million for Federally Funded Research and Development Centers.						
FY 2024 reduced by 1.577 million for SBIR.						
FY 2026 President's Budget (PB) increased by 18.465 million from previous year's PB for expanded weapons effects and Electromagnetic Pulse testing, and vulnerability analysis.						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support				Project (Number/Name) 654236 / Engineering Analysis			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
654236: Engineering Analysis	0.000	4.279	2.515	2.714	0.000	2.714	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AFNWC is the executing agency for the Engineering Analysis (EA) program that supplies and maintains technical expertise on all AF nuclear weapons and systems by ensuring model based digital engineering integration into systems engineering and mission engineering processes through the application of modular designs / approaches. The EA program develops a digitally informed workforce, increases assurance for fielded systems in a cost-effective and efficient manner, and increases the integration of nuclear weapons systems with war-fighter mission capability assessment. The EA program supplies resources for technical and programmatic activities which include performing independent analyses on all stages of AF nuclear weapon systems life-cycles including weapons development, sustainment, interoperability, compatibility, training, safety, security, reliability, cybersecurity, and AF legacy nuclear stockpile management /retirement.

The program provides for the development and maintenance of a nuclear enterprise architecture to ensure alignment and integration of nuclear weapon system capabilities and interfaces. The data management and information technology modernization efforts increase quality and flexibility of design, development, and fielding of nuclear capabilities to the war-fighter by leveraging design and sustainment data across the enterprise aligned to an AFNWC wide data strategy. The implementation of digital engineering and Model Based System Engineering (MBSE) efforts will facilitate the rapid testing, analysis, and delivery of nuclear weapon systems to address evolving threats. Digital transformation tools - automation, machine learning, artificial intelligence - and technological solution implementation will improve AFNWC business processes efficiency and effectiveness to address current government operational needs and focus on higher-value activities. The EA digital engineering efforts also include cloud-based implementation technologies that will be configured to ensure all data analysis and visualizations reach back to a single authoritative data source of truth.

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 2024 \$0M was expended for civilian pay expenses in this program element, and in FY 2025 \$0M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Engineering Analysis	4.279	2.515	2.714
Description: • Provide the technical oversight of all AF nuclear weapons, delivery systems, and support systems. • Provide the engineering and technical management expertise required in monitoring critical areas of nuclear weapons safety, security, cyber, reliability, operations, modernization, testing, and counterproliferation.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / <i>Nuclear Weapons Support</i>	Project (Number/Name) 654236 / <i>Engineering Analysis</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
• Implement digital data standardization for digital systems engineering efforts; develop and provide common data models within the team-center digital environment for Digital Engineering Orchestration efforts. • Research and report on various approaches to enterprise licensing and management of MBSE applications and digital tools for the Digital Engineering Pilot Project efforts. • Analyze multiple applications of Zero Trust (ZT) data fabric implementation for future implementation in the AFNWC for ZT Implementation efforts. • Move MBSE, resource management, and analysis processes into cloud structures assuring single source of truth data-pull and near-real-time visualization for cloud implementation sustainment efforts. • Digital Systems Engineering - Implement digital data standardization. • Digital Engineering Orchestration - Develop and provide common life-cycle data models within the team-center digital environment. • Digital Engineering Pilot Project - Research and report on various approaches to enterprise licensing and management of MBSE applications and digital tools. • ZT Implementation - Analyze multiple applications of ZT data fabric implementation for future implementation in the AFNWC. • Cloud Implementation Sustainment - Move MBSE, resource management, and analytic processes into cloud structures, assuring a single source of truth data pull and near real-time visualization. • Continue to build, refine, and maintain an end-to-end nuclear enterprise architecture using Digital Systems Engineering and Digital Data Standardization. FY 2026 Plans: • Complete: (1) ZT implementation; (2) Cloud implementation sustainment; (3) Digital Engineering Pilot Project. • Continue digital data standardization for digital systems engineering efforts. • Continue to develop and provide common data models aligned to a center data strategy. • Continue to implement product life-cycle management within the team-center digital environment for Digital Engineering Orchestration efforts. • Continue to research and report on various approaches to enterprise licensing and management of MBSE applications and digital tools for digital engineering. • Continue to build, refine, and maintain an end-to-end nuclear enterprise architecture using Digital Systems Engineering and Digital Data Standardization. FY 2025 to FY 2026 Increase/Decrease Statement: • FY2026 funding increased due to greater emphasis towards nuclear weapon system enterprise architecture changes, digital engineering process improvement, and cyber security penetration testing for newly developed systems deployment.			
Accomplishments/Planned Programs Subtotals		4.279	2.515
		2.714	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support	Project (Number/Name) 654236 / Engineering Analysis
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks Secure Cyber Facility Support and Test Center Facility Support are now consolidated under Mission Support on the R4. Digital Systems Engineering, Digital Engineering Orchestration, Digital Engineering Pilot Project, and Cloud implementation Sustainment are consolidated under the title Digital Engineering. Cyber Security Vulnerability Assessments determined to be not an applicable expense to Engineering Analysis and is in process of moving to Center level funding starting in FY2026. This move allowed proper allocation to Nuclear Enterprise Architecture efforts. Zero Trust Implementation completed early and managed at an Enterprise level. All systems architecture efforts are consolidated in the title Nuclear Enterprise Architecture.		
D. Acquisition Strategy The most appropriate acquisition strategy will be evaluated and chosen for each effort. Contracting strategies include but are not limited to: Cost Plus types, Firm Fixed Price, Delivery Orders, and other types of execution such as micro-purchases, and Military Interdepartmental Purchase Request (MIPR). These will be used to obtain technical analyses and technical support for safety, operations, and counter-proliferation assessments. Supporting activities are contracted separately using contracting strategies deemed most appropriate to the effort. All contracts will be openly competed.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / <i>Nuclear Weapons Support</i>	Project (Number/Name) 654236 / <i>Engineering Analysis</i>

Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Federally Funded Research and Development Center (FFRDC) Engineering Analysis	MIPR	AEROSPACE : Kirtland AFB, NM	-	1.590	Nov 2023	0.900	Jun 2025	1.572	Oct 2025	-		1.572	-	-	-
Nuclear Enterprise Architecture	C/TBD	TBD : Kirtland AFB, NM	-	0.576		0.400	Aug 2025	0.600	Jun 2026	-		0.600	-	-	-
Subtotal			-	2.166		1.300		2.172		-		2.172	-	-	N/A

Remarks
 Cyber Security Vulnerability Assessments perviously funded here was determined not to be an applicable activity for Engineering Analysis and is in process of moving to AFNWC-level funding.

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Nuclear Enterprise Architecture	Various	Various : Kirtland AFB, NM	-	1.000	Apr 2024	0.900	Mar 2025	0.146	Feb 2026	-		0.146	-	-	-
Digital Engineering & Business Process Automation	Various	Various : Kirtland AFB, NM	-	0.300	Apr 2024	0.100	Apr 2025	0.096	Mar 2026	-		0.096	-	-	-
Model Based Systems Engineering Assessments	Various	Various : Kirtland AFB, NM	-	0.100	Apr 2024	0.050	Apr 2025	0.100	Jun 2026	-		0.100	-	-	-
Cyber Security Penetration Testing	C/FFP	Various : Kirtland AFB, NM	-	0.250	Apr 2024	0.015	Apr 2025	0.050	May 2026	-		0.050	-	-	-
Subtotal			-	1.650		1.065		0.392		-		0.392	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support				Project (Number/Name) 654236 / Engineering Analysis					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test Facility Support	MIPR	US Army Garrison WSMR : White Sands, NM	-	0.300		0.015	Jan 2025	0.020	Oct 2025	-		0.020	-	-	-
Subtotal			-	0.300		0.015		0.020		-		0.020	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Contractor Support A&AS	Various	Various : Kirtland AFB, NM	-	0.064	Apr 2024	0.035	Apr 2025	0.030	Mar 2026	-		0.030	-	-	-
Program Management Support	Various	Various : Kirtland AFB, NM	-	0.099	Apr 2024	0.100	Apr 2025	0.100	Oct 2025	-		0.100	-	-	-
Subtotal			-	0.163		0.135		0.130		-		0.130	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	4.279		2.515		2.714		-		2.714	-	-	N/A
Remarks															
Secure Cyber Facility Support and Test Center Facility Support are now consolidated under Mission Support on the R4. Digital Systems Engineering, Digital Engineering Orchestration, Digital Engineering Pilot Project, and Cloud implementation Sustainment are consolidated under the title Digital Engineering. Cyber Security Vulnerability Assessments determined to be not an applicable expense to Engineering Analysis and is in process of moving to Center level funding starting in FY 2026. This move allowed proper allocation to Nuclear Enterprise Architecture efforts. Zero Trust Implementation will be completed early and managed at the enterprise level. All systems architecture efforts are consolidated in the title Nuclear Enterprise Architecture.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force															Date: June 2025				
Appropriation/Budget Activity										R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 5										PE 0604222F / Nuclear Weapons Support					654236 / Engineering Analysis				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Engineering Analysis																												
Zero Trust Implementation																												
Cyber Security Vulnerability Assessments & Analysis																												
Nuclear Enterprise Architecture																												
Digital Engineering and MBSE																												
Mission Support																												
Project Management Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support	Project (Number/Name) 654236 / Engineering Analysis	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Engineering Analysis				
Zero Trust Implementation	3	2024	4	2025
Cyber Security Vulnerability Assessments & Analysis	1	2024	4	2025
Nuclear Enterprise Architecture	3	2024	4	2030
Digital Engineering and MBSE	3	2024	4	2030
Mission Support	3	2024	4	2030
Project Management Support	3	2024	4	2030

Note
Zero Trust implementation completed early. Cyber Security Vulnerability Assessments determined not to be an applicable activity for Engineering Analysis and is in process of moving to AFNWC-level funding. Secure Cyber Facility support and Test Center Facility support are now consolidated under Mission Support. Digital Systems Engineering, Digital Engineering Orchestration, Digital Engineering Pilot Project, and Cloud implementation sustainment have been consolidated under Digital Engineering. All systems architecture efforts have been consolidated under Nuclear Enterprise Architecture.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support				Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
654807: Nuclear Weapon System Technology and Integration	0.000	37.944	66.307	74.437	0.000	74.437	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AFNWC is the executing agency for the Nuclear Weapon System Technology and Integration (NWST&I) program that ensures the safety, survivability, security, and effectiveness of AF nuclear weapon systems in direct support to the military warfighters and force providers. Emphasis is placed on ensuring nuclear weapon system compatibility, validating nuclear safety designs, generating weapon system safety rules, developing flight profiles for safe and effective nuclear weapons delivery, exposing vulnerabilities which could compromise the authorized use of nuclear weapons, and developing mitigations to any nuclear weapon system safety, security, or effectiveness shortfalls (to include future concept development). These requirements are met through in-depth technical, operational, and intelligence evaluations, demonstrations, modeling and simulation (M&S), test and evaluation (T&E), trade studies, requirements analysis, and recommendations to planning, policy, and doctrine. Additionally, the program conducts DoD-required certification for legacy, modernized, and new nuclear weapon systems.

The Air Force Safety Center (AFSEC), provides guidance, direction, and oversight of all matters pertaining to emerging weapons technologies including nuclear surety of all nuclear weapons and weapon systems in Air Force custody and facilities, from storage and assembling, testing, transporting, and delivering it on target. AFSEC collaborates with DAF nuclear stakeholders to implement a nuclear weapons systems safety and surety program as part of the overall Air Force Nuclear Surety Program, as directed by DoDD 3150.02, DoD Nuclear Weapons Surety Program and Department of Defense Manual 3150.02, DoD Nuclear Weapon System Safety Program Manual. Emphasis is placed on ensuring nuclear weapon system prevention of loss (safety), validating nuclear safety designs, coordinating interagency weapon system safety rules for OSD, exposing vulnerabilities which could compromise the authorized use of nuclear weapons, and developing compensatory measures to any nuclear weapon system safety, security, or operational non-compliance (to include future concept development and cybersecurity and zero-trust implications on surety). AF and DOD requirements are met through in-depth technical, operational, demonstrations, modeling and simulation (M&S), test and evaluation (T&E), trade studies, requirements analysis, and recommendations to acquisition execution, schedule, and guidance using all available information to include Artificial Intelligence for increasing efficiency. Additionally, the program conducts DoD-required certification for legacy, modernized, and new nuclear weapon systems and maintains a Special Access Program (SAP) and Unauthorized Launch (UL) and Safety Privilege information Secure Compartmentalized Information Facility (SCIF) to ensure efficient access to interagency nuclear weapons enterprise program data for the Air Force Safety enterprise and Department of Defense stakeholders.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0M was expended for civilian pay expenses in this program element, and in FY 2025 \$0M is forecasted for civilian pay expenses in this program element.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support	Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Weapons Effects		8.653	7.049	15.175
Description: Ensures survivable and effective AF systems through evaluation, test, and analyses of nuclear environments and their impact to AF platforms. Develops and maintains the sole AF analytical capability to assess nuclear effects on weapon systems, their inherent hardness and mission degradation within a nuclear environment. These efforts shape and support requirements for new acquisitions, fielded systems, as well as providing critical expertise for exercises and operational planning.				
FY 2025 Plans: • Develop, modernize, verify, and validate M&S tools (to include integration with other DoD M&S tools.) • Develop rigorous methods and tools for testing and predictive response to nuclear effects as they relate to the expected operational environments. • Analyze hardness requirements for current and future delivery aircraft, support aircraft, weapon systems, ICBMs, and NC3 assets. • Expand development of methods and tools used to assure weapon effectiveness in operationally relevant environments. • Support AFGSC EMP Survivability Program execution per DAFI 10-2601 to include developing testing strategies and assessing resource requirements, shortfalls and prioritization. • Provide hardness/survivability analysis and subject matter expertise supporting Conventional-Nuclear Integration (CNI) planning, strategies, and wargaming.				
FY 2026 Plans: • Continue development, modernization, verification, and validation of M&S tools (to include integration with other DoD M&S tools.) • Continue to develop rigorous methods and tools for testing and predictive response to nuclear effects as they relate to the expected operational environments. • Continue analysis to establish hardness requirements for current and future delivery aircraft, support aircraft, weapon systems (to include facilities and support equipment), ICBMs, and NC3 assets. • Continue to expand development of methods and tools used to assure weapon effectiveness in operationally relevant environments. • Continue to support AFGSC EMP Survivability Program execution per DAFI 10-2601 to include developing testing strategies and assessing resource requirements, shortfalls and prioritization • Continue to provide hardness/survivability analysis and subject matter expertise supporting Conventional-Nuclear Integration (CNI) planning, strategies, and wargaming.				
FY 2025 to FY 2026 Increase/Decrease Statement:				

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support	Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
Funding increase is due to expanded testing requirements and activities.					
Title: Air Force Nuclear Red Team (AFNRT) Description: The AFNRT independently evaluates vulnerabilities of current and future strategic systems across their lifecycle vs the full complement of current and emerging threats. These strategic systems capability assessments include focused intelligence analysis, nuclear weapon system fragility analysis, vulnerability modes & effects analysis, M&S, and effects testing. As part of the effort to assess the vulnerabilities, data is used from various tests and M&S efforts to develop mitigation strategies and develop potential future system concepts for consideration by program offices and the Combatant Commands. This analysis of various threats to AF nuclear weapon systems is used to inform the warfighter's concept of operations (CONOPS), modernization activities, and new acquisitions. FY 2025 Plans: • Improve assessments of strategic system capabilities/vulnerabilities relative to Air-Delivered (AD), ground-based nuclear weapon systems, and NC3. • Evaluate and analyze to address current and future threats that include, but are not limited to, kinetic, electronic warfare, cyber, and supply chain exploitation. Assessments will include focused intelligence analyses, nuclear weapon system fragility analyses, vulnerability modes and effects analyses, nuclear hardness assessments, M&S, and combined environments testing. Data from these evaluations will be used in the development of requirements, future system concepts, CONOPS, and TTPs as well as support the CNI Implementation Plan and path forward. FY 2026 Plans: • Continue to improve assessments of strategic system capabilities/vulnerabilities relative to AD, ground-based nuclear weapon systems, and NC3. • Continue to evaluate and analyze to address current and future threats that include, but are not limited to, kinetic, electronic warfare, cyber, and supply chain exploitation. Assessments will include focused intelligence analyses, nuclear weapon system fragility analyses, vulnerability modes and effects analyses, nuclear hardness assessments, M&S, and combined environments testing. Data from these evaluations will be used in the development of requirements, future system concepts, CONOPS, and TTPs as well as support the CNI Implementation Plan and path forward. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to greater emphasis on vulnerability analyses.			12.026	13.226	17.805
Title: Nuclear Certification Management Description: This effort conducts nuclear certification activities that were previously contained in this program element, under project 654236, Engineering Analysis, prior to FY23. This funding is for statutory and regulatory (DoD and AF) nuclear enterprise-			17.265	46.032	41.457

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support		Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
wide nuclear certification activities executed by AFNWC. It is distinct from, but complemented by, the funding identified by specific nuclear weapons programs (e.g., B-21, LGM-35A Sentinel, F-35A, F-15E, etc.) for their roles, responsibilities, and authorities in nuclear certification, as segregated and directed by the same regulations (DODM 5210.41M and AFI 63-125). By DoD mandate, AFNWC provides an external (independent of program office) review of a weapon system's nuclear safety and surety features, eventually certifying the weapon system and its operational employment procedures. Nuclear certification activities include independent AF technical reviews, evaluations, and analyses for nuclear safety themes, employment procedures, delivery systems (warhead and/or carrier platforms, subsystems, or components), support equipment, software, and facilities that handle, maintain, or operate nuclear weapons or nuclear weapon systems to ensure compliance with national, DoD, and AF guidance. AFNWC's scope includes overall management of the entire nuclear certification process for the AF, as well as the execution of testing and evaluations to achieve compatibility certification, nuclear safety design, weapon system safety rules, and validated technical orders & functions (e.g., security) involving personnel and organizations assigned to perform nuclear missions. The objective of this project is focused on new nuclear weapon system acquisition programs, as well as fielded system sustainment, modifications, and upgrades. This project will manage the flow of nuclear certification activities and provide certification data to all stakeholders via the Nuclear Certification Analysis Tool (NCAT). Examples include certification requirements plans, Aircraft Monitor and Control (AMAC) certification, consequence analyses, qualitative and quantitative hazard evaluations, and technical design analysis. FY 2025 Plans: • Develop capabilities to optimize nuclear certification activities within the digital environment. This includes the use of advanced computational approaches (e.g., artificial intelligence), and automated toolsets/algorithms to assist certifiers in assessing nuclear weapon system compliance with the four DoD surety standards and ensure DoD system compatibility with DOE systems. • Invest in capabilities to test and assess delivery platforms compatibility with nuclear weapon systems. • Invest in and improve nuclear certification-specific data analysis capabilities (tools) to match growing weapon system complexity. • Conduct independent technical analyses to execute on-time certification activities for F-35A, B-21, LRSO missile, Sentinel, B-52H, modernized ICBM Fuze, and seven Weapon Generation Facilities. • Support DoD-requested capability growth for the NCAT analysis tool to optimize resource loading, program deconfliction and to provide senior leader insight into nuclear certification status. FY 2026 Plans: • Continue to develop capabilities to optimize nuclear certification activities within the digital environment including transitioning from a compliance-based to risk-informed certification process. This includes the use of advanced computational approaches (e.g., artificial intelligence), and automated toolsets/algorithms to assist certifiers in assessing nuclear weapon system compliance with the four DoD surety standards and ensure DoD system compatibility with DOE systems, as well as proper requirements definition and allocation.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support		Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
- Continue to invest in capabilities to test and assess delivery platforms compatibility with nuclear weapon systems to include the sustainment, modernization, and recapitalization of test devices for certification of current and future systems. - Continue to invest in and improve nuclear certification-specific data analysis capabilities (tools) to match growing weapon system complexity. - Continue to conduct independent technical analyses to execute on-time certification activities for F-35A, B-21, LRSO missile, Sentinel, B-52H, modernized ICBM Fuze, B61-13, and seven Weapon Generation Facilities. - Continue to support DoD-requested capability growth for the NCAT analysis tool to optimize resource loading, program deconfliction, and to provide senior leader insight into nuclear certification status. - Support Air Force efforts to adapt and incorporate new surety requirements associated with OSD(NM) update of DODD 3150.02.					
FY 2025 to FY 2026 Increase/Decrease Statement: Funding decrease is due to continued efforts to externally source scheduled nuclear certification activities.					
Accomplishments/Planned Programs Subtotals			37.944	66.307	74.437
C. Other Program Funding Summary (\$ in Millions) N/A					
Remarks All sub-projects are continuous support/testing to all nuclear weapon systems. Follow-on contracts are for Modeling and Simulation and engineering, program and testing support efforts.					
D. Acquisition Strategy The objective of the NWST&I program strategy is to provide independent technical engineering, and scientific analyses, assessments and information in support of AF nuclear weapons systems while developing, and mentoring, and also shaping the next generation of AF resources. Multiple Cost Plus Fixed Fee (CPFF) and/or Time and Material (T&M) and Military Interdepartmental Purchase Requests (MIPR) are/will be used to execute testing and evaluations, technical analyses, and/or provide focused support unique to the nuclear enterprise, for the technology and integration processes. All contracts will be openly competed.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support				Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Family of Testers Engineering and Development	C/CPFF	Various : Kirtland AFB, NM	-	7.722	Dec 2023	15.262	Dec 2024	9.810	Dec 2025	-		9.810	-	-	-
NCAT Cloud Development	C/CPAF	Various : Kirtland AFB, NM	-	1.057	Dec 2023	2.535	Dec 2024	1.785	Dec 2025	-		1.785	-	-	-
Subtotal			-	8.779		17.797		11.595		-		11.595	-	-	N/A
Remarks															
NCAT Cloud Development moved into appropriate category which was previously combined under Nuclear Certification Engineering Support. Fluctuations in funding level for Family of Testers Engineering and Cloud Development between FY24 and FY26 corresponds to an increase in funding for nuclear certification in FY25 and FY26.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Modeling & Simulation	C/CPFF	Peerless Technology Corp : Kirtland AFB, NM	-	3.277	Dec 2023	4.200	Dec 2024	4.200	Dec 2025	-		4.200	-	-	-
FFRDC Engineering & Technical Support	MIPR	Aerospace Corp(SMC) : El Segundo, CA	-	3.825	Nov 2023	3.978	Nov 2024	4.137	Nov 2025	-		4.137	-	-	-
Security Support	MIPR	Other : Kirtland AFB, NM	-	0.581	Jan 2024	0.728	Jan 2025	0.757	Jan 2026	-		0.757	-	-	-
Research and Analysis Support	C/CPFF	Various : Kirtland AFB, NM	-	3.751	Dec 2023	3.905	Dec 2024	3.061	Dec 2025	-		3.061	-	-	-
Nuclear Certification Engineering Support	C/CPFF	Various : Kirtland AFB, NM	-	2.975	Dec 2023	11.471	Dec 2024	8.115	Dec 2025	-		8.115	-	-	-
Equipment	Various	Various : Kirtland AFB, NM	-	0.487	Mar 2024	0.500	Mar 2025	0.500	Mar 2026	-		0.500	-	-	-
Threat Analysis and Simulation Support	MIPR	MSIC : Various	-	0.750	Feb 2024	0.750	Feb 2025	0.750	Feb 2026	-		0.750	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support				Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Nuclear Surety and Hazards of Electromagnetic Radiation to Ordnance (HERO)	C/CPFF	TBD : Kirtland AFB, NM	-	0.000	Apr 2024	2.000	Jun 2025	5.664	Jun 2026	-		5.664	-	-	-
Subtotal			-	15.646		27.532		27.184		-		27.184	-	-	N/A
Remarks Fluctuations in funding level for Nuclear Certification Engineering Support between FY24 and FY26 corresponds to an increase in funding for nuclear certification in FY25 and FY26.															
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Evaluation	C/CPAF	John Hopkins : Laurel, MD	-	0.900	Jul 2024	0.750	Mar 2025	0.750	Mar 2026	-		0.750	-	-	-
Weapons Effects Uncertainty Testing	MIPR	National Labs : Kirtland AFB, NM	-	1.446	Dec 2023	1.000	Dec 2024	8.500	Dec 2025	-		8.500	-	-	-
AFNRT Assessments	Various	National Labs : Various	-	4.588	Dec 2023	3.600	Dec 2024	12.394	Dec 2025	-		12.394	-	-	-
Modeling, Simulation and Analysis	C/CPFF	Booze Allen Hamilton : Kirtland AFB, NM	-	0.450	Dec 2023	0.600	Dec 2024	0.624	Dec 2025	-		0.624	-	-	-
Capability Assessments	C/FP	CMU-SEI : Pittsburgh, PA	-	0.500	Jul 2024	1.500	Nov 2024	1.000	Nov 2025	-		1.000	-	-	-
AMAC Testing	C/CPAF	Various : Kirtland AFB, NM	-	4.510	Dec 2023	12.198	Dec 2024	10.971	Dec 2025	-		10.971	-	-	-
Subtotal			-	12.394		19.648		34.239		-		34.239	-	-	N/A
Remarks Fluctuations in funding level for AMAC Testing between FY24 and FY26 corresponds to an increase in funding for nuclear certification in FY25 and FY26.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support						Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Contractor Support A&AS	C/CPFF	Odyssey Systems : Kirtland AFB, NM	-	0.084	Aug 2024	0.203	Feb 2025	0.211	Feb 2026	-		0.211	-	-	-
NWST&I Program Support Cost (PSC)	Various	Various : Kirtland AFB, NM	-	1.041	Nov 2023	1.127	Nov 2024	1.208	Nov 2025	-		1.208	-	-	-
Subtotal			-	1.125		1.330		1.419		-		1.419	-	-	N/A
Remarks PSC includes travel, training, supply/equipment, freight, JWICS contractor support, and communications support (ARC & JWICS Phones).															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	37.944		66.307		74.437		-		74.437	-	-	N/A
Remarks All sub-projects are continuous support/testing to all nuclear weapon systems. Follow-on contracts for Modeling and Simulation and engineering, program and testing support efforts.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support					Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
AF Nuclear Red Team																												
Assessments																												
Evaluation																												
Weapons Effects																												
Weapons Uncertainty																												
Modeling, Simulation & Analysis																												
Nuclear Certification																												
Engineering Support																												
Nuclear Assessment																												
AMAC Testing																												
Nuclear Development																												
NCAT Cloud Development																												
Family of Testers																												
Program Support																												
Engineering																												
Security																												
Research and Analysis																												
Equipment																												
Program Support Cost (PSC)																												
Nuclear Surety and Hazards of Electromagnetic Radiation to Ordnance (HERO)																												
Vulnerability and Nuclear Weapon System Surety Assessments																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / <i>Nuclear Weapons Support</i>	Project (Number/Name) 654807 / <i>Nuclear Weapon System Technology and Integration</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>AF Nuclear Red Team</i>				
Assessments	1	2024	4	2030
Evaluation	4	2024	3	2027
<i>Weapons Effects</i>				
Weapons Uncertainty	1	2024	4	2030
Modeling, Simulation & Analysis	1	2024	4	2030
<i>Nuclear Certification</i>				
Engineering Support	1	2024	4	2030
<i>Nuclear Assessment</i>				
AMAC Testing	1	2024	4	2030
<i>Nuclear Development</i>				
NCAT Cloud Development	1	2024	3	2026
Family of Testers	1	2024	3	2027
<i>Program Support</i>				
Engineering	1	2024	4	2030
Security	1	2024	4	2030
Research and Analysis	1	2024	4	2030
Equipment	1	2024	4	2030
Program Support Cost (PSC)	1	2024	4	2030
<i>Nuclear Surety and Hazards of Electromagnetic Radiation to Ordnance (HERO)</i>				
Vulnerability and Nuclear Weapon System Surety Assessments	3	2025	3	2030

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support	Project (Number/Name) 654807 / Nuclear Weapon System Technology and Integration

Note
All sub-projects are continuous support/testing to all nuclear weapon systems.
Follow-on contracts for Modeling and Simulation and engineering, program and testing support efforts.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support				Project (Number/Name) 655708 / Nuclear Weapons Support			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
655708: Nuclear Weapons Support	0.000	1.996	2.001	2.161	0.000	2.161	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The modernization of legacy nuclear systems, development of new nuclear-capable aircraft and munitions, and the creation of the new Weapon Generation Facilities (WGF) within Air Force Global Strike Command (AFGSC) may require new support equipment capabilities to meet system and mission requirements. Additionally, the WGF introduces a new concept of operations by integrating maintenance and storage mission sets into one facility. To support mission generation requirements, support equipment and capabilities related to the nuclear enterprise must be studied, reviewed, modified, or in extreme cases, re-developed to maintain operational readiness. In FY25, user requirements increased the 3K aerial stores lift truck capability to 4K due to increased length/weight of new munitions. Examples of equipment under review include but are not limited to: (a) next-generation 4K and 7K aerial stores lift trucks; and (b) the Electric Manually Operated Lift Truck (EMOLT) to replace the aged MHU-194 Manually Operated Lift Truck (MOLT). The Next Generation Large Munitions unit, also known as the MHU-TSX, will integrate advanced technology such as machine vision and supervised autonomy and agile maneuverability to reduce the time associated with loading and transporting weapons both internally (threshold) and externally (objective) on AFGSC aircraft. The review, analysis, and potential modification of existing equipment ensures mission generation remains executable.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0M was expended for civilian pay expenses in this program element, and in FY 2025 \$0M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Nuclear Enterprise Support Equipment	1.996	2.001	2.161
Description: Nuclear Enterprise Support Equipment Review and Design			
FY 2025 Plans: - Utilize studies and analyses from previous efforts to develop the next generation of munitions handling equipment, stabilized power, HVAC, munitions stands and trailers, and aerospace ground equipment used to support the nuclear enterprise. -Conduct engineering associated with requirements definition, technology maturation, and risk reduction needed to develop solutions to deliver prototypes which meet the evolving requirements of AFGSC for next-generation Common Aviation Support Equipment (CAvSE). Some examples include but are not limited to next-generation 4K and 7K aerial stores lift trucks, Electric Manually Operated Lift Truck (EMOLT), and MHU-TSX.			
FY 2026 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604222F / <i>Nuclear Weapons Support</i>		Project (Number/Name) 655708 / <i>Nuclear Weapons Support</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
- Continue studies and analyses from efforts in the MHU-TSX program advancing to a prototype stage. Efforts will produce the next generation of munitions handling equipment and munitions trailers used to support the nuclear enterprise and Agile Combat Employment (ACE) roadmap. - Continue engineering associated with requirements definition, technology maturation, and risk reduction needed to develop solutions to deliver prototypes which meet the evolving requirements of AFGSC for next-generation CAVSE. MHU-TSX efforts will begin the Limited Operation User Evaluation (LOUE), Developmental and Operational testing phase of the program. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding increased due to developmental testing and overall increase in activity.					
Accomplishments/Planned Programs Subtotals			1.996	2.001	2.161
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
Efforts with Multi Capable Trailer (MCT) have ceased and those capabilities are covered within the MHU-TSX project.					
D. Acquisition Strategy					
1. The acquisition strategy for the 4K and 7K aerial stores lift trucks is for MilTech, via a Partnership Intermediary Agreement (PIA), to continue to engage and support industry partners, Manufacturing Extension Partnerships (MEP), and Subject Matter Experts (SMEs) on the development and delivery of demonstration prototypes. 2. The acquisition strategy for the EMOLT is for MilTech, via a PIA, to mature the current prototype design with delivery of six (EMOLTs) production ready first article units. 3. The acquisition strategy for the MHU-TSX is for the Air Force Research Laboratory, AFGSC, and AFLCMC/ROZ to work with industry partners to design, fabricate, and test a (+7K lbs) prototype. Next-generation equipment is planned to reduce bomber fleet weapon load times.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support				Project (Number/Name) 655708 / Nuclear Weapons Support					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Aerial Stores Lift Truck (EMOLT)	RO	AFRL/MilTech : Bozeman, MT	-	0.750	Mar 2024	-		0.496	Oct 2025	-		0.496	-	-	-
Aerial Stores Lift Truck (Large Class) (MHU-TSX)	RO	Square One Corp. : Jackson Hole, WY	-	-		0.000	Oct 2024	0.145	Oct 2025	-		0.145	-	-	-
Next-Generation Aerial Stores Lift Trucks (4K/7K)	RO	AFRL/MilTech : Bozeman, MT	-	-		1.890	Jun 2025	0.828	Jan 2026	-		0.828	-	-	-
Subtotal			-	0.750		1.890		1.469		-		1.469	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Contractor Support	PO	PE Systems, Inc. : TBD	-	1.246	Mar 2024	0.111	Mar 2025	0.692	Mar 2026	-		0.692	-	-	-
Subtotal			-	1.246		0.111		0.692		-		0.692	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.996		2.001		2.161		-		2.161	-	-	N/A
Remarks															
References to Small Agile Lift Truck (SALT) were removed as that was one effort for a 3K prototype. Prototype efforts were successful at the 3K level. In FY25 requirements shifted from a 3K to a 4K capability based on user requirements to accommodate new munition designs. In late FY25 and beyond, funding will be used to award development contract for 4K and 7K designs. Efforts with Multi Capable Trailer (MCT) have ceased and those capabilities are covered within the MHU-TSX project.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025				
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 5					PE 0604222F / Nuclear Weapons Support					655708 / Nuclear Weapons Support				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Nuclear Enterprise Support Equipment																												
Next-Generation 4K and 7K Aerial Stores Lift Trucks																												
Electric Manually Operated Lift Truck (EMOLT)																												
MHU-TSX																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support	Project (Number/Name) 655708 / Nuclear Weapons Support	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Nuclear Enterprise Support Equipment</i>				
Next-Generation 4K and 7K Aerial Stores Lift Trucks	1	2024	4	2028
Electric Manually Operated Lift Truck (EMOLT)	1	2024	4	2027
MHU-TSX	1	2024	4	2028

Note
The projects within the Weapons Generation Facility program target workflow and operation of current and future nuclear-certified systems. Small Agile Lift Truck (SALT) entry removed and replaced with Next-Generation 4K and 7K Aerial Stores Lift Trucks due to encapsulating the modernization work of the increased requirement of 4K and to capture efforts of the 7K development. Efforts with Multi Capable Trailer (MCT) have ceased and those capabilities are covered within the MHU-TSX project.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	23.673	13.754	17.013	0.000	17.013	-	-	-	-	-	-
653891: <i>Adv Infrared Counter Measures(Aircm)</i>	0.000	23.673	13.754	17.013	0.000	17.013	-	-	-	-	-	-
658462: <i>Airborne Electronic Attack*</i>	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	-	-	-

*This project's R-2a exhibit has been suppressed due to funding not beginning until after FY 2026

A. Mission Description and Budget Item Justification

The Advanced Infrared Countermeasure (AIRCМ) project contains related aircraft self-protection efforts aimed at increasing aircraft survivability against the increasing threat of sophisticated surface-to-air and air-to-air missiles. These missiles may employ sophisticated next-generation Electro-Optics (EO), Infrared (IR), Radio Frequency (RF), dual-mode (i.e. IR and RF), or multi-mode seekers. AIRCM will provide advanced expendable countermeasures and/or techniques that will be functionally compatible with existing dispenser systems and employed across multiple USAF weapons systems. This also includes any and all flare, chaff, decoy, and associated component development and testing that may be demanded or needed in current and future operations regardless of aircraft platform. Similar activities that are supplementary to this effort may be accomplished ad hoc using platform specific funding or through other activities such as joint services or NATO test groups.

This program element may include necessary civilian pay expenses required manage, execute, and deliver weapons system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0M was expended for civilian pay expenses om this program element, and in FY 2025 \$0M is forecasted for civilian pay expenses in this program element.

In FY 2026 PE 0604270F, Project 653891 Electromagnetic Battle Management (EMBM) efforts were transferred to PE 0207407F and Cognitive Electromagnetic Warfare efforts were transferred to PE 0207039F.

The FY 2026 request was reduced by \$202 thousand for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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PE 0604270F: *Electronic Warfare Development* **UNCLASSIFIED** Page 2 of 12 R-1 Line #87 Volume 2 - 634

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
653891: <i>Adv Infrared Counter Measures(Aircm)</i>	0.000	23.673	13.754	17.013	0.000	17.013	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2026 PE 0604270F, Project 653891 Electromagnetic Battle Management (EMBM) efforts were transferred to PE 0207407F and Cognitive Electromagnetic Warfare efforts were transferred to PE 0207039F.

A. Mission Description and Budget Item Justification

"The Advanced Infrared Countermeasure (AIRCМ) project improves aircraft self-protection against the increasing threat of sophisticated surface-to-air and air-to-air missiles. Countermeasure improvements are the result of multiple related activities. First, enhanced understanding of advanced threats derived from intelligence and Threat Acquisition and Exploitation. Countermeasure Modeling and Simulation creates updated threat models, countermeasure models, and aircraft models. Modeling and Simulation is then used to digitally evaluate new techniques and products for improved effectiveness against current and emerging threat systems. Countermeasure Development yields new devices and capabilities aimed to defeat advanced threats. Countermeasure Testing collects data for updated digital models as well as tests devices and techniques to determine effectiveness. The project also provides for modernization and enhancement of tools and capabilities needed to perform Threat Acquisition and Exploitation, Countermeasure Modeling and Simulation, Countermeasure Development, and Countermeasure Testing. The project also evaluates novel countermeasure devices and techniques for potential significant capability gains against threats."

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Countermeasure Development and Testing	3.304	0.000	0.000
Description: Development, testing and qualification of EO, IR, and RF countermeasures (CM) on aircraft.			
FY 2025 Plans: N/A			
FY 2026 Plans: N/A			
FY 2025 to FY 2026 Increase/Decrease Statement: N/A			
Title: Threat Acquisition & Exploitation	0.500	2.000	3.000
Description: Threat Acquisition & Exploitation will be a continuing project including intelligence monitoring of threat developments, acquisition of foreign threat systems, development of threat system surrogates, exploitation of threat systems and			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
support to digital threat model development. The funding ensures focus on threats of interest to the AIRCM program and provides the level of analysis needed to discover potential countermeasure solutions. Investment will grow capacity to acquire and exploit multiple systems simultaneously reducing time to deliver countermeasure capabilities.			
FY 2025 Plans: Invest in surrogate threat system development, ramp up investment & capacity for threat exploitation activities through Air Force Research Laboratory.			
FY 2026 Plans: Continue to invest in surrogate threat system development, ramp up investment & capacity for threat exploitation activities through Air Force Research Laboratory and Missile & Space Intelligence Center.			
FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increase due to a multi-year capacity ramp up enabling comprehensive exploitation of multiple systems concurrently. This is part of the USAF overall increased investment in the AIRCM program.			
Title: Countermeasure Development Description: All aspects of research, design, development, prototyping, and production of test assets for new countermeasures leading to fielding of new countermeasure capabilities. May also include development of advanced manufacturing methods and capabilities. FY 2025 Plans: Invest in maturing Army DEVCOM alternative pyrophoric material, begin investment in lower cost training flare device, fund rapid prototyping and development activities. This support previously funded under the Countermeasure Development and Testing major thrust area. FY 2026 Plans: Invest in maturing Army DEVCOM alternative pyrophoric material, fund rapid prototyping and development activities. FY 2025 to FY 2026 Increase/Decrease Statement: Increase is due to the USAF overall increased investment in the AIRCM program.		0.000	4.105
Title: Countermeasure Testing Description: Funds all aspects of countermeasures testing. May include flight test, ground based testing, test instrumentation availability and operation, data collection and data reduction, updates and modernization of test assets to meet changing needs as driven by updates to threat systems. Investment will enable routine test events to reduce timeline from updated		0.000	0.577
			6.859

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>		Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
countermeasure recommendations to test and validation of performance. The increased funding levels will reduce timeline to deliver countermeasures capabilities.					
FY 2025 Plans: Funding will support conduct of a test event in FY25. Begins work on a pneumatic countermeasure sled track to shorten timelines and costs to test developmental items. This is a lower cost to operate system recording precise position information for flares and aircraft in flight. This data is vital to flare digital model development and current systems for recording this information are cost prohibitive to sustain and operate. This support previously funded under the Countermeasure Development and Testing major thrust area.					
FY 2026 Plans: Funding will support conduct of test events in FY 2026 to include infrared air-to-air and radio frequency countermeasure testing.					
FY 2025 to FY 2026 Increase/Decrease Statement: Increase is due to the USAF overall increased investment in the AIRCM program.					
Title: Countermeasure Modeling and Simulation			0.000	1.560	2.360
Description: Funds operation of countermeasure modeling and simulation, development of recommended advanced countermeasure solutions, in lab testing and support of field testing, data collection and data analysis from test events. Also funds continued advancement of modeling & simulation capabilities including advancing software, digital models, and IT infrastructure required to operate. Investment will grow modeling and simulation capacity, reducing time to deliver countermeasure capabilities.					
FY 2025 Plans: Continue ongoing efforts funding Air Force Research Laboratory Dynamic Infrared Missile Evaluation (DIME) Laboratory, Air Force Life Cycle Management Center, Georgia Tech Research Institute (GTRI), and Navy Infrared Countermeasures Effectiveness Laboratory (NICEL) for modeling & simulation of Infrared and Radio Frequency guided missiles. This support previously funded under the Countermeasure Development and Testing major thrust area.					
FY 2026 Plans: Continue ongoing efforts funding Air Force Research Laboratory Dynamic Infrared Missile Evaluation (DIME) Laboratory, Air Force Life Cycle Management Center, Georgia Tech Research Institute (GTRI), and Navy Infrared Countermeasures Effectiveness Laboratory (NICEL) for modeling & simulation of Infrared and Radio Frequency guided missiles. This support previously funded under the Countermeasure Development and Testing major thrust area.					
FY 2025 to FY 2026 Increase/Decrease Statement:					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
Increase is due to greater AF investment in threat model development in FY 2026. This is part of the USAF overall increased priority for the AIRCM program.					
Title: Electromagnetic Battle Management (EMBM) Description: Perform assessments and analyses for an Air Force capability to provide electromagnetic spectrum situational awareness, decision support, and command and control - linked by common architectures, standards, and data - to enable planning, coordination, and synchronization of electromagnetic spectrum operations (EMSO) across the range of military operations. FY 2025 Plans: Perform preparation activities for development of program Acquisition Strategy development. FY 2026 Plans: Project 653891 EMBM is moving to its individual PE 27407F FY 2025 to FY 2026 Increase/Decrease Statement: Decrease is due to transfer of funds to new EMBM PE 27407F			4.869	2.756	0.000
Title: Cognitive Electromagnetic Warfare (EW) Description: Perform assessments and analyses for an Air Force capability to defend from and attack an adversaries' use of the electromagnetic spectrum (EMS) assisted by incorporation of machine learning/artificial intelligence algorithms into aircraft EW systems, and share Cog EW algorithms, techniques, and identification/targeting criteria to the joint warfighting force. FY 2025 Plans: Perform pre-program of record activities to include assessments and analyses of current AF EW systems ability to incorporate Cog EW capabilities into existing EW system architectures and identify requirements strategy. FY 2026 Plans: Project 653891 Cognitive EW is moving to its individual PE 27039F FY 2025 to FY 2026 Increase/Decrease Statement: Decrease is due to transfer of funds to new Cog EW PE 27039F			5.000	2.756	0.000
Accomplishments/Planned Programs Subtotals			13.673	13.754	17.013
			FY 2024	FY 2025	
Congressional Add: AI Machine Learning			10.000	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025	
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>		Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>
			FY 2024	FY 2025
FY 2024 Accomplishments: Perform pre-program of record activities to include assessments and analyses of current AF EW systems ability to incorporate Cog EW capabilities into existing EW system architectures and identify requirements strategy.				
Congressional Adds Subtotals			10.000	-

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

Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• PAAF 01 356010: <i>Expendable Countermeasures</i>	79.786	99.769	102.638	-	102.638	-	-	-	-	-	-

Remarks

Qualified flares, if not in AF inventory, will be procured under program 0208030F War Reserve Munitions, Flares.

D. Acquisition Strategy

Various acquisition approaches will be used. Government organic capabilities will be utilized to the greatest practicable extent to include threat acquisition and exploitation, modeling and simulation, testing, and development work. Portions of the program will be executed via Other Transactional Authorities which facilitate collaborative Government, Industry, and Academic ordnance technology development and prototyping initiatives. Other portions may be contracted via the Eglin Wide Agile Acquisition Contract, a multi-year indefinite delivery, indefinite quantity contract supporting munitions research, development, prototyping, and production.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
AI and machine learning enabled electronic warfare systems	TBD	TBD : Warner Robins AFB, GA	-	10.000	Oct 2024	-		-		-		-	-	-	-
Pyrophoric Alternative Material	MIPR	DEVCOM AC : Picatinny Arsenal, NJ	-	0.500	Jan 2024	0.800	Nov 2024	0.900	Jan 2026	-		0.900	-	-	-
High Frequency Chaff	TBD	TBD : TBD	-	0.350	Mar 2024	-		-		-		-	-	-	-
IR Advanced Countermeasure Prototyping and Design	Various	Various : TBD	-	0.500	May 2024	1.060	Nov 2024	3.890	Jan 2026	-		3.890	-	-	-
Cognitive Electromagnetic Warfare (EW)	Various	Air Combat Command : Langley AFB, VA	-	5.000	Oct 2023	2.756	Oct 2024	-		-		-	-	-	-
Electromagnetic Battle Management (EMBM)	Various	Air Combat Command : Langley AFB, VA	-	4.869	Oct 2023	2.756	Oct 2024	-		-		-	-	-	-
Subtotal			-	21.219		7.372		4.790		-		4.790	-	-	N/A
Remarks															
Develop Advanced Expendable Countermeasures to defeat currently fielded threats from which aircraft are not sufficiently protected.															
Perform assessments and analyses of proposed electromagnetic warfare (EW) capabilities.															
Pyrophoric Alternative Material: - Continues development of DEVCOM AC alternative pyrophoric material - Work to be done to optimize IR output - Potential alternative to environmentally unfriendly material produced by sole source vendor - Future of current sole source vendor is uncertain															
IR Advanced Countermeasure Prototyping & Design: - Will fund design and prototype countermeasures for test and evaluation - Anticipate supporting concurrent efforts through multiple acquisition approaches															
In FY 2026 PE 0604270F, Project 653891 Electromagnetic Battle Management (EMBM) efforts were transferred to PE 0207407F and Cognitive Electromagnetic Warfare efforts were transferred to PE 0207039F.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>						Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>			
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
A&AS Support	C/FFP	EPASS: Hill AFB : UT	-	0.200	Feb 2024	0.410	Feb 2025	-		-		-	-	-	-
Travel	Various	Not specified. : TBD	-	0.025	Feb 2024	-		-		-		-	-	-	-
Subtotal			-	0.225		0.410		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Threat and Acquisition Exploitation	MIPR	Multiple : TBD	-	0.500	Feb 2024	1.267	Jan 2025	2.500	Dec 2025	-		2.500	-	-	-
IR Modeling and Simulation	MIPR	Various : TBD	-	1.729	Dec 2023	1.510	Jan 2025	2.860	Dec 2025	-		2.860	-	-	-
Digital Static Track System	MIPR	Navy Crane : Crane, IN	-	-		-		1.000	Jan 2026	-		1.000	-	-	-
RF Modeling & Simulation	MIPR	Various : TBD	-	-		-		0.800	Jan 2026	-		0.800	-	-	-
Test Event	MIPR	Various : TBD	-	-		3.195	Sep 2025	5.063	Jan 2026	-		5.063	-	-	-
Subtotal			-	2.229		5.972		12.223		-		12.223	-	-	N/A
Remarks															
Threat Acquisition and Exploitation: - Effort will utilize several approaches to acquire threat systems, fund exploitation efforts and digital model development - Fund expenditure timelines are unpredictable for threat acquisition, dependent on opportunity IR Modeling & Simulation: - This entails performance of modeling and simulation (to include hardware in the loop) which helps to predict advanced expendable countermeasure effectiveness and develop and define Air Force Requirements - Performing activity varies; conducted by AFRL, Georgia Tech Research Institute, US Navy NICEL Lab, Guided Weapons Evaluation Facility at Eglin AFB and others - Funds updates and modernization of software and hardware necessary to keep modeling and simulation capability current to advanced threat systems RF Modeling & Simulation: - Funds modeling and simulation to determine effectiveness of expendable countermeasure against radar guided threat systems															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>					Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test Event: - This includes but is not limited to Seeker Test Vans (multiple vans required for Captive Seeker), duo chrome camera, and other test equipment - Activities/support during testing (i.e. communications/electric/security) - Performing Activity & Location should remain "Various: TBD", multiple activities are included															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	23.673		13.754		17.013		-		17.013	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>		Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Advance IR Aircm																												
IR/UV: Black Body Thrusted Flare																												
Modeling and Simulation																												
Threat Acquisition & Exploitation																												
Pyrophoric Alternative Material																												
IR Advanced Countermeasure Prototyping and Design																												
IR Modeling and Simulation																												
Subsonic Sled Track for Countermeasure Development																												
RF Modeling & Simulation																												
Test Event																												
Cognitive Electromagnetic Warfare (EW)																												
Cognitive Electromagnetic Warfare (EW)																												
Electromagnetic Battle Management (EMBM)																												
Electromagnetic Battle Management (EMBM)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 653891 / <i>Adv Infrared Counter Measures(Aircm)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Advance IR Aircm</i>				
IR/UV: Black Body Thrusted Flare	1	2026	2	2028
Modeling and Simulation	1	2024	1	2030
Threat Acquisition & Exploitation	1	2024	4	2030
Pyrophoric Alternative Material	2	2024	3	2028
IR Advanced Countermeasure Prototyping and Design	2	2024	4	2030
IR Modeling and Simulation	1	2024	4	2030
Subsonic Sled Track for Countermeasure Development	2	2025	4	2030
RF Modeling & Simulation	2	2024	4	2030
Test Event	1	2025	4	2030
<i>Cognitive Electromagnetic Warfare (EW)</i>				
Cognitive Electromagnetic Warfare (EW)	1	2024	4	2025
<i>Electromagnetic Battle Management (EMBM)</i>				
Electromagnetic Battle Management (EMBM)	1	2024	4	2025

Note

Both the Cognitive Electromagnetic Warfare and Electromagnetic Battle Management efforts are moving to their own PEs; 27039F and 27407F respectively in FY26

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604281F / <i>Tactical Data Networks Enterprise</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	82.369	78.480	77.170	0.000	77.170	-	-	-	-	-	-
655050: <i>TDL System Integration</i>	0.000	82.369	78.480	77.170	0.000	77.170	-	-	-	-	-	-

Note

N/A

A. Mission Description and Budget Item Justification

Air Force operations rely on secure communications capability for Command-and-Control messages, threat messages, target updates, etc. Adversaries continually attempt to detect, intercept, decrypt, defeat, disrupt, deny or degrade these communications capabilities--driving the Air Force to continuously upgrade its systems with enhanced encryption, increased technology for low probability of detection (LPD), low probability of interception (LPI), anti-jamming (AJ), increased security and performance engineering, and enhanced throughput and interoperability. These efforts ensure life-saving data can be transmitted before, during and after operations without adversary hostile intervention via secure and reliable communication paths. The communications paths utilized are often referred to as datalinks over which are transmitted messages via specific waveforms through radios, multi-function processors and affiliated and associated technologies in accordance with specifications and standards.

The Tactical Data Networks Enterprise (TDNE) program element analyzes and evaluates requirements, designs, develops, enhances, and fields prospective or needed systems. The TDNE focuses on the research, analysis, design, development, test, evaluation and fielding or other capability development of Tactical Datalink (TDL), gateway, radio, multi-function processor, antenna, multi-function aperture, license, waveform and other associated equipment, technology or capabilities. TDNE develops, enhances and fields technologies, architectures, documentation, tactics, techniques, procedures and capabilities. These efforts enhance Air Force communications capacity, efficiency, affordability, integration and optimization. TDNE supports interoperability of Air Force to: Air Force, Joint, Coalition, and NATO (Allied), and other partner platforms and systems; supports releasability engineering, cyber engineering, digital engineering, encryption and safety compliance, et al.

Tactical Data Links (TDL) System Integration provides for the study, analysis, enhancement, development, integration, demonstration, joint/coalition/NATO interoperability exercises, costing, test, trials, and evaluation of TDL as a subset of the broader aerial layer network. Products include interoperability standards and reports, waveform standards, and hardware/software technical solutions. The number of Air Force platforms hosting TDLs has expanded from C2 aircraft to the fighter, bomber, intelligence, surveillance, and reconnaissance (ISR), tanker, airlift and other tactical fleets as well as precision guided munitions. Utilization of TDLs in joint and international environments requires the integration of terminals into host platforms and interoperability of TDL networks across all deployed joint/Coalition/NATO platforms. USAF mandates require additional studies and analysis to meet frequency reprogramming and cryptographic requirements. To deliver TDL capabilities to required platforms and users, Tactical Data Links (TDL) Networks Enterprise is broken into four main thrusts of Tactical Data Links and Gateways (TDL&G) Integration, Advanced Aerial Communication Technology (AACT), the Common Tactical Edge Network (CTEN) program (which evolved from and includes prior Agile Communications efforts), and Second-Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) waveform sponsor activities.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise
Tactical Data Links and Gateways (TDL&G) Integration activities consist of TDL integration and waveform management to ensure host platforms and users have current TDL waveforms, network access, and interoperability. This includes enabling and supporting Joint Interoperability of Tactical Command and Control Systems (JINTACCS), joint/Coalition/NATO Interoperability, Link 16 enhancements, cybersecurity and performance testing, requirements analysis and fleet roadmapping efforts. In addition to integration efforts for new and existing TDLs, these activities require funding for test units and facilities, interoperability management systems, and assessment tools to implement waveform standards to meet system information exchange requirements. Advanced Aerial Communication Technology (AACT) activities consist of developing and demonstrating new technologies to enable host platforms and users. This includes but is not limited to the development of capabilities to reduce the effects of advanced jamming in Anti-Access/Area Denial environments and increase communications resiliency for platforms and users. Technical solutions developed under this effort include, but are not limited to, Small Form Factor (SFF)/Digitally Assisted Close Air Support (DACAS), SPOC and Link 16 Enhancements. The Common Tactical Edge Network (CTEN) program evolved from and incorporates prior Agile Communications efforts to enhance interoperability. It includes the capability to share tactically significant information within/to/from highly contested environments in support of the Air Superiority 2030 Flight Plan. It supports the application of open standards and advanced apertures over an Enterprise-wide Aerial Network, enabling all platforms to share combat-relevant data/info to, from and within the Highly Contested Environment (HCE). The CTEN program is primarily a software (SW) overlay network that routes data within and between permissive, contested, and highly contested environments through content routing to establish connections between heterogeneous networks across different media and domains. CTEN is considered a core enabling program for the DAF Battle Network and is a key enabler of the Advanced Battle Management System (ABMS). The CTEN efforts include the prior classified and unclassified Agile Communications efforts, along with their interoperability with affiliated cross-Service and Joint capabilities and efforts such as the Joint Tactical Edge Network (JTEN). Second-Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) activities in this PE consists of executing the Waveform Sponsor role for SATURN. Each role consists of several distinct engineering and development responsibilities, to include, but not limited to leading and overseeing the development, refinement, updating, and US interoperability of the SATURN Waveform and its associated development efforts such as, for example, the SATURN Enhanced Data Rate (SEDR) program. DoD Instruction 4630.09, "Communications Waveform Management and Standardization" outlines the roles of a Waveform Sponsor that will be pursued via the funds in the program element. To note, DoDI 4630.09 identifies specific roles for a "Lead Service" and a "Waveform Sponsor". "Lead Service" activities are unique and provided for in a separate program element 0303008F. Family of Gateways provides for the study (acquisitions current and proposed), analysis, enhancement, development, integration, costing, demonstration, test, and evaluation efforts that will allow joint combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks producing operational effects not possible within individual networks. Gateway functions include enabling interoperability between data formats, protocols, and communication mediums. Additionally, gateway functions extend the connectivity range, consolidate data from multiple networks into high-capacity links for transmission to key C2ISR nodes, route information between disadvantaged users, and fuse/correlate data from multiple sources to improve accuracy. Gateway functions also provide application hosting, shared data storage, on-demand information access, smart data forwarding, and system monitoring and network management. Family of Gateways will support to enhance existing TDL performance, through upgrades and engineering analysis of system designs.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604281F I Tactical Data Networks Enterprise				
Efforts within this PE align with USAF investment in ABMS (0604003F) and Tech Transition - Air (0604858F) to deliver beyond line of sight communications for the Department of the Air force Battle Network (DAF Battle Network).						
The FY 2026 request was reduced by 3.525M for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative"						
This program element may include necessary civilian pay expenses required to support, manage, execute, and deliver weapon system capabilities across the BACN platforms, aerial network, and tactical data network enterprise. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024, 0.903M was expended for civilian pay expenses in this program element. In FY 2025, 1.715M is forecasted for civilian pay expenses in this program element.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		74.023	78.480	85.439	0.000	85.439
Current President's Budget		82.369	78.480	77.170	0.000	77.170
Total Adjustments		8.346	0.000	-8.269	0.000	-8.269
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		8.346	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-8.269	0.000	-8.269
Congressional Add Details (\$ in Millions, and Includes General Reductions)					FY 2024	FY 2025
Project: 655050: TDL System Integration						
Congressional Add: Software Programmable Open Mission System (OMS) Compliant (SPOC)					11.141	-
Congressional Add Subtotals for Project: 655050					11.141	-
Congressional Add Totals for all Projects					11.141	-

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604281F / <i>Tactical Data Networks Enterprise</i>				Project (Number/Name) 655050 / <i>TDL System Integration</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
655050: <i>TDL System Integration</i>	0.000	82.369	78.480	77.170	0.000	77.170	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Tactical Data Networks Enterprise (TDNE) program element analyzes and evaluates requirements, designs, develops, enhances, and fields prospective or needed systems. The TDNE focuses on the research, analysis, design, development, test, evaluation and fielding or other capability development of Tactical Datalink (TDL), gateway, radio, multi-function processor, antenna, multi-function aperture, license, waveform and other associated equipment, technology or capabilities. TDNE develops, enhances and fields technologies, architectures, documentation, tactics, techniques, procedures and capabilities. These efforts enhance Air Force communications capacity, efficiency, affordability, integration and optimization. TDNE supports interoperability of Air Force to: Air Force, Joint, Coalition, and NATO (Allied), and other partner platforms and systems; supports releasability engineering, cyber engineering, digital engineering, encryption and safety compliance, et al.

Tactical Data Links (TDL) System Integration provides for the study, analysis, enhancement, development, integration, demonstration, joint/coalition/NATO interoperability exercises, costing, test, trials, and evaluation of TDL as a subset of the broader aerial layer network. Products include interoperability standards and reports, waveform standards, and hardware/software technical solutions. The number of Air Force platforms hosting TDLs has expanded from C2 aircraft to the fighter, bomber, intelligence, surveillance, and reconnaissance (ISR), tanker, airlift and other tactical fleets as well as precision guided munitions. Utilization of TDLs in joint and international environments requires the integration of terminals into host platforms and interoperability of TDL networks across all deployed joint/Coalition/NATO platforms. USAF mandates require additional studies and analysis to meet frequency reprogramming and cryptographic requirements. To deliver TDL capabilities to required platforms and users, Tactical Data Links (TDL) System Integration is broken into four main thrusts of Tactical Data Links and Gateways (TDL&G) Integration, Advanced Aerial Communication Technology (AACT), the Common Tactical Edge Network (CTEN) program (which evolved from and includes prior Agile Communications efforts), and Second-Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) activities.

Tactical Data Links and Gateways (TDL&G) Integration activities consist of TDL integration and waveform management to ensure host platforms and users have current TDL waveforms, network access, and interoperability. This includes enabling and supporting Joint Interoperability of Tactical Command and Control Systems (JINTACCS), joint/Coalition/NATO Interoperability, Link 16 enhancements, cybersecurity and performance testing, requirements analysis and fleet roadmapping efforts. In addition to integration efforts for new and existing TDLs, these activities require funding for test units and facilities, interoperability management systems, and assessment tools to implement waveform standards to meet system information exchange requirements.

Advanced Aerial Communication Technology (AACT) activities consist of developing and demonstrating new technologies to enable host platforms and users. This includes but is not limited to the development of capabilities to reduce the effects of advanced jamming in Anti-Access/Area Denial environments and increase communications resiliency for platforms and users. Technical solutions developed under this effort include, but are not limited to, Protected Tactical Waveform (PTW), Small Form Factor (SFF)/Digitally Assisted Close Air Support (DACAS), Software Programmable Open Mission System (OMS) Compliant (SPOC) radio and Link 16 Enhancements.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604281F / <i>Tactical Data Networks Enterprise</i>	Project (Number/Name) 655050 / <i>TDL System Integration</i>
The Common Tactical Edge Network (CTEN) program evolved from and incorporates prior Agile Communications efforts to enhance interoperability. It includes the capability to share tactically significant information within/to/from highly contested environments in support of the Air Superiority 2030 Flight Plan. It supports the application of open standards & advanced apertures over an Enterprise-wide Aerial Network, enabling all platforms to share combat-relevant data/info to, from and within the Highly Contested Environment (HCE). The CTEN program is primarily a software (SW) overlay network that routes data within and between permissive, contested, and highly contested environments through content routing to establish connections between heterogeneous networks across different media and domains. CTEN is considered a core enabling program for the DAF Battle Network and is a key enabler of the Advanced Battle Management System (ABMS). The CTEN efforts are in accordance with the CTEN Capability Needs Statement (CNS) and include the prior classified and unclassified Agile Communications efforts, along with their interoperability with affiliated cross-Service and Joint capabilities and efforts such as the Joint Tactical Edge Network (JTEN). Second-Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) activities in this PE consists of executing the Waveform Sponsor role for SATURN. Each role consists of several distinct engineering and development responsibilities, to include, but not limited to leading and overseeing the development, refinement, updating, and US interoperability of the SATURN Waveform and its associated development efforts such as, for example, the SATURN Enhanced Data Rate (SEDR) program. Efforts within this PE align with USAF investment in ABMS (0604003F) and Tech Transition - Air (0604858F) to deliver beyond line of sight communications for the Department of the Air force Battle Network (DAF Battle Network). This program element may include necessary civilian pay expenses required to support, manage, execute, and deliver weapon system capabilities across platforms, aerial network, and tactical data network enterprise. 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 FY2024, \$1.054M was expended for civilian pay expenses in this program element. In FY2025, \$1.400M is forecasted for civilian pay expenses in this program element.		
B. Accomplishments/Planned Programs (\$ in Millions)		
Title: Agile Comms - Common Tactical Edge Network (CTEN)		
Description: Agile Comms supports the application of open standards, multi-function processors, and advanced apertures over an Enterprise-wide Aerial Network, enabling all platforms to share combat-relevant data/info to, from and within the Highly Contested Environment (HCE) regardless of the data link and messages format that they are operating on, to include supporting the development of airborne gateways. Agile Comms also supports initial integration of advanced communications and networking capabilities onto tactically-relevant aircraft. Finally, this effort supports planning, data collection, development and analysis for initial technology maturation experimentation campaign.		
Common Tactical Edge Network (CTEN) effort within Agile Comms addresses unique challenges of DoD networks by using content routing to establish connections between heterogeneous networks across different media and domains. It is a software (SW) overlay network that routes data within and between permissive, contested, and highly contested environments. CTEN is being developed for integration on various platforms, allowing the flexibility to support various missions, to meet the needs of the DoD Network in the future. The effort will also continue to support message translation and extensible markup languages (XMLs)		
	FY 2024	FY 2025
	48.643	44.451
		FY 2026
		42.634

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604281F / <i>Tactical Data Networks Enterprise</i>	Project (Number/Name) 655050 / <i>TDL System Integration</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
development. Additional work will continue to support advanced non proprietary antenna apertures supporting various missions. Work will continue in the study/analysis of a ATDL waveform to meet the needs of the modern warfighter.			
FY 2025 Plans: - Continue to develop and demonstrate the Common Tactical Edge Network (CTEN) Minimum Viable Product (MVP) through release of MVP 3.0. - Complete systems architecting and continue to support advanced non proprietary antenna apertures necessary to mature the Enterprise Approach to the Joint Aerial Network. - Continue development of enterprise waveforms capabilities in direct support of connect the quad initiative to include the study/analysis of associated waveforms to meet the needs of the modern/future warfighters.			
FY 2026 Plans: -Will continue to develop and demonstrate the Common Tactical Edge Network software capabilities in accordance with the Capability Needs Statement.			
FY 2025 to FY 2026 Increase/Decrease Statement: Decrease due to reduction in Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative"			
Title: Tactical Data Links and Gateways (TDL&G) Integration Description: TDL&G Integration activities include but are not limited to, Data Link Test Facility (DTF), Air Force Participating Test Unit (AFPTU), Network Centric Capability Assessment (NCCA), Joint/Coalition/NATO Interoperability, Analysis of Alternatives (AoA) follow-on, gateway planning as well as Joint Interoperability of Tactical Command and Control Systems (JINTACCS) ensures interoperability of TDL systems with associated joint, allied, and Coalition systems. It includes configuration management of TDL Military Standards (MIL-STDs), TDL message development, interoperability test/certification, and TDL message standard implementation using interoperable System Management and Requirements Transformation (iSMART) for Link 16, Link 22, Intra-flight Data Link (IFDL), Multifunction Advanced Data Link (MADL), and others. Efforts also include AFPTU will purchase hardware and software in support for testing Link 16 updates made by contractors and MAJCOMs to ensure they are in compliance with MIL STD 6016, the Link 16 specification.		15.844	28.279
			28.369

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise	Project (Number/Name) 655050 / TDL System Integration		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
JINTACCS reviews changes requested to the MIL STD Link16 specification to support various MAJCOM and coalition engagements that present new changes to the specification or changes to the message formats along with other documentation that could also impact the specification. Requirement analysis includes engagements with contractors and Federally Funding R&D Centers (FFRDC) regarding future capabilities/initiatives by conducting studies and analysis that will then feed into future requirements and capabilities.					
FY 2025 Plans: -Continue to manage the development, certification, training and logistics plans for individual TDL implementations to Joint/ allied standards. -Continue to provide the necessary engineering, technical, and administrative support required to add and/or update Air Force platform and system information exchange requirements. -Continue to ensure compatibility and interoperability of TDLs by funding required Air Force/joint MIL-STD compliance and interoperability tests. -Continue to ensure compatibility and interoperability of TDLs by developing TDL messaging capability to address new or updated operational requirements					
FY 2026 Plans: - Will continue to manage the development, certification, training and logistics plans for individual TDL implementations to Joint/ allied standards. - Will continue to provide the necessary engineering, technical, and administrative support required to add and/or update Air Force platform and system information exchange requirements. - Will continue to ensure compatibility and interoperability of TDLs by funding required Air Force/joint MIL-STD compliance and interoperability tests. - Will continue ensure compatibility and interoperability of TDLs by developing TDL messaging capability to address new or updated operational requirements					
FY 2025 to FY 2026 Increase/Decrease Statement: Increase due to standard inflation in costing, as activities remain the same and continuous from year to year.					
Title: Second Generation Anti-Jam Tactical UHF Radio for NATO (SATURN)			1.741	5.750	6.167
Description: SATURN is a fast frequency hopping waveform that was developed as a replacement for the Have Quick waveform. The upgrade to SATURN will provide an improved radio resistant to jamming through fast frequency hopping and digital modulation techniques.					
FY 2025 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604281F / <i>Tactical Data Networks Enterprise</i>	Project (Number/Name) 655050 / <i>TDL System Integration</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
- Continue to update the waveform specification complying with NATO STANAG and testing utilizing the Reference Implementation Lab (RIL). - Perform SEDR analysis and evaluation activities to enable porting SEDR on Air-to-Air and Air-to-Ground radios to incorporate text/data capability. FY 2026 Plans: - Will continue to update the waveform specification complying with NATO STANAG and testing utilizing the Reference Implementation Lab (RIL). - Will perform SEDR analysis and evaluation activities to enable porting SEDR on Air-to-Air and Air-to-Ground radios to incorporate text/data capability. FY 2025 to FY 2026 Increase/Decrease Statement: Increase due to standard inflation in costing, as activities remain the same and continuous from year to year.			
Title: Advanced Aerial Communication Technology (AACT) Description: The AACT effort is not new, but a regrouping of prior efforts and evolving similar activities. It includes all technology developments efforts required to enhance the execution of combat in contested and highly contested environments. It includes areas of prior investment such as the Protected Tactical Waveform (PTW), the Small Form Factor Efforts (SFF), the Software Programmable Open Mission Systems (OMS) Compliant (SPOC) multi-function processor (MFP), and other similar activities such as new MFP development, or incorporation or integration of advanced communications technology efforts. Protected Tactical Waveform (PTW) is a waveform designed to mitigate the effects of advanced jamming in Anti- Access/Area Denial environments, and prior efforts included the HAAM-R and BiFrost projects. Small Form Factor (SFF) efforts support the development and demonstration of Small Form Factor (SFF) technologies that can support Digitally Assisted Close Air Support (DACAS) and other missions across the full spectrum of operating environments. This effort considers System-of-Systems (SoS) engineering, technical analysis/performance, platform integration, and Tactics, Techniques, and Procedures (TTPs) to best utilize technologies and acquisition approaches for enterprise modernization. SFF Phase II (TURTLE) is a rapid prototyping and demonstration effort. Link 16 Enhancements develop and field Link 16 Anti Jam (AJ) capabilities on 4th and 5th generation platforms to address Link 16 jamming threats in the contested and highly contested environments. This effort implements Link 16 technologies into TDL terminals and investigates integration of additional baseline(s) to efficiently execute development and enhancements. Emerging technologies are developed and evaluated for efficacy; recommendations are identified for appropriate terminal fielding/upgrades to platforms and will be considered when evaluating enterprise TDL capabilities/gaps.		5.000	0.000
			0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0604281F / <i>Tactical Data Networks Enterprise</i>				Project (Number/Name) 655050 / <i>TDL System Integration</i>				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Early development of Software Programmable Open mission system Compliant (SPOC) radio was completed within Link 16 Enhancements efforts. An FY 2024 Congressional Add for this effort is geared to integrating and testing new waveforms and pursuing platform integration.												
FY 2025 Plans: No FY2025 funding requested.												
FY 2026 Plans: No FY2026 funding requested.												
Accomplishments/Planned Programs Subtotals										71.228	78.480	77.170
										FY 2024	FY 2025	
Congressional Add: Software Programmable Open Mission System (OMS) Compliant (SPOC)										11.141	-	
FY 2024 Accomplishments: - Develop state of technology with multiple vendors.												
Congressional Adds Subtotals										11.141	-	
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 07 PE	0.000	0.000	-	-	-	-	-	-	-	-	-	
0207448F: C2/SR TDL												
• APAF 05 Line Item F01500: F-15	0.000	-	-	-	-	-	-	-	-	-	-	
• APAF 05 Line Item F01600: F-16	0.000	-	-	-	-	-	-	-	-	-	-	
• APAF 05 Line Item B00200: B-2A	0.216	0.221	-	-	-	-	-	-	-	-	-	
• APAF 05 Line Item B01B00: B-1B	0.000	-	-	-	-	-	-	-	-	-	-	
• OPAF 03 Line Item 834010:	36.164	0.815	-	-	-	-	-	-	-	-	-	
<i>General Information Technology</i>												
Remarks												
D. Acquisition Strategy												
The Airborne Networking Directorate provides for common development, integration, and interoperability across the entire airborne network and ensures that data links are procured and maintained as a joint, end-to-end command and control system. A key tenet of Tactical Data networks Enterprise (TDNE) is the cooperative involvement of operators and acquisition stakeholders throughout the requirements, development, production, and fielding processes. Platform acquisition strategies												

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604281F / <i>Tactical Data Networks Enterprise</i>	Project (Number/Name) 655050 / <i>TDL System Integration</i>

vary by program, but the majority of development and integration is normally accomplished by the weapon system prime contractor. Most TDNE efforts leverage the Data Link Enterprise, or DLE, contract. The DLE contract provides a pool of nine pre-qualified vendors ready to respond to task order requests, enabling rapid response to evolving warfighter requirements.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise				Project (Number/Name) 655050 / TDL System Integration					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
TDL&G Integration	Various	Various : Various	-	8.554	Jan 2024	8.364	Jan 2025	11.361	May 2026	-		11.361	-	-	-
SATURN	C/Various	Not specified. : TBD	-	1.370	Mar 2024	4.170	Apr 2025	4.231	Apr 2026	-		4.231	-	-	-
CTEN	Various	Various : Various	-	41.822	Aug 2024	46.920	Aug 2025	40.701	Jun 2026	-		40.701	-	-	-
AACT - Link 16 Enhancements	Various	MITLL : Bedford, MA	-	5.000	Jul 2024	-		-		-		-	-	-	-
AACT -Software Programmable Open Mission System (OMS) Compliant (SPOC)	C/TBD	Not specified. : TBD	-	11.141	Aug 2024	-		-		-		-	-	-	-
Subtotal			-	67.887		59.454		56.293		-		56.293	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
TDL&G Integration A&AS support	Various	Not specified. : TBD	-	3.400	Aug 2024	3.736	Apr 2025	5.689	Apr 2026	-		5.689	-	-	-
TDL&G DCA	Allot	Not specified. : TBD	-	-		-		2.027	Apr 2026	-		2.027	-	-	-
CTEN A&AS support	Various	Not specified. : TBD	-	3.000	Aug 2024	3.750	Apr 2025	2.141	Apr 2026	-		2.141	-	-	-
SATURN A&AS support	C/CPAF	Not specified. : TBD	-	0.370	Aug 2024	1.580	Apr 2025	1.330	Apr 2026	-		1.330	-	-	-
SATURN DCA	Allot	Not specified. : TBD	-	-		-		1.320	Apr 2026	-		1.320	-	-	-
Subtotal			-	6.770		9.066		12.507		-		12.507	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
TDL&G Integration - DTF	PO	46th Test Squadron : Eglin AFB, FL	-	1.500	Jan 2024	3.500	Nov 2024	2.000	Nov 2025	-		2.000	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise						Project (Number/Name) 655050 / TDL System Integration			
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
TDL&G Integration - JINTACCS	C/FFP	TBD : Various	-	3.412	Mar 2024	3.500	Mar 2025	3.600	Mar 2026	-		3.600	-	-	-
TDL&G Integration - AFPTU	Various	Various : Various	-	1.870	Aug 2024	1.870	May 2025	1.870	Aug 2026	-		1.870	-	-	-
Subtotal			-	6.782		8.870		7.470		-		7.470	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
TDL&G Coalition	C/CPAF	MITRE : Bedford MA	-	0.263	Mar 2024	0.403	Mar 2025	0.450	Mar 2026	-		0.450	-	-	-
TDL&G Nato	C/CPAF	MITRE : Bedford MA	-	0.667	Aug 2024	0.687	Aug 2025	0.450	Aug 2026	-		0.450	-	-	-
Subtotal			-	0.930		1.090		0.900		-		0.900	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	82.369		78.480		77.170		-		77.170	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise				Project (Number/Name) 655050 / TDL System Integration			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Tactical Data Network Enterprise																												
TDL&G Integration																												
AACT - SPOC																												
AACT - Link 16 Enhancements																												
CTEN Agile Comms																												
SATURN																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise	Project (Number/Name) 655050 / TDL System Integration	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Tactical Data Network Enterprise				
TDL&G Integration	1	2024	4	2030
AACT - SPOC	1	2024	2	2026
AACT - Link 16 Enhancements	1	2024	4	2024
CTEN Agile Comms	1	2024	4	2030
SATURN	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604287F I Physical Security Equipment							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	9.836	10.569	10.589	0.000	10.589	-	-	-	-	-	-
655120: Physical Security Equipment - SD ED	0.000	9.836	10.569	10.589	0.000	10.589	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Physical Security Equipment (PSE) program provides for Air Force (AF) Integrated Base Defense Security Systems (IBDSS) improvements and enhancements, to include the demonstration and testing of PSE systems related to Force Protection. This program supports the protection of tactical, fixed, and nuclear weapons systems, AF personnel and AF facilities in the homeland and overseas. The PSE program includes spectrum planning for radio frequency (RF), communication security (cyber), information assurance requirements, integration and interoperability Command Control & Communication (C3) platform & components and Tactical Sensor System to support the Force Protection implementation of expeditionary/AFFORGEN concept. This Program Element also includes funding for Force Protection Commercial Off the Shelf (COTS) equipment, market research, integration, evaluation and testing. Force Protection programs are inherently subject to rapid changes in the operational environment and will retain sufficient program flexibility to meet changes in location, scope and capability in order to protect AF people, facilities and warfighting assets. The Defender Multi-Domain Command, Control and Communications (DMDC3) is an initiative developing the foundational structure of IBDSS to provide a platform that integrates the computing power, the means of communication, and the tools for situational awareness. PSE efforts support Modular Open Source Architecture (MOSA) standards to enable faster installations and greater interoperability to address the Chief of Staff of the AF 'Fight the Base' goals.

IBDSS FY2026 developmental efforts will continue to evaluate and test state-of-the-art technology to support integrated based defense systems installations worldwide, continue to improve and integrate COTS efforts into IBDSS physical security equipment, and further develop, integrate and test Defender Multi-Domain Command, Control and Communications (DMDC3) software applications. IBDSS-4 expands upon and scales IBDSS modernization efforts first developed under IBDSS-2. Capability improvements include zero-trust architecture, Machine Language (ML)/Artificial Intelligence (AI) integration, expanded sensor capabilities, Unmanned Aerial System(UAS)/Unmanned Ground Vehicle (UGV) integration, and improved mobile C3.

The FY 2026 request was reduced by 0.490 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

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 FY2024 1.118M forecasted for civilian pay expenses in this program element, and in FY2025 1.430M is forecasted for civilian pay expenses in this program element.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604287F I Physical Security Equipment				
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		10.605	10.569	11.082	0.000	11.082
Current President's Budget		9.836	10.569	10.589	0.000	10.589
Total Adjustments		-0.769	0.000	-0.493	0.000	-0.493
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-0.500	0.000			
• SBIR/STTR Transfer		-0.269	0.000			
• Rounding Adjustments		0.000	0.000	-0.493	0.000	-0.493
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: IBDSS-3/4				9.836	10.569	10.589
Description: IBDSS-3/4 (Integrated Base Defense Security Systems) qualifies, demonstrates, and tests Physical Security Equipment (PSE) systems to include Force Protection.						
FY 2025 Plans: IBDSS-3 -Continue to conduct market research, evaluation and testing to address capability gaps and obsolescence to include, but not limited to Force Protection COTS. -Continue further integration and testing to qualify COTS equipment to provide essential upgrades/improvements and state-of-the-art technology to support integrated based security systems installations worldwide. -Continue with the integration and/or modification of COTS efforts to improve IBDSS physical security equipment. -Continue further integration and testing of Defender Multi-Domain Command, Control and Communications (DMDC3) software applications from either COTS suppliers or modified COTS systems. -Continue integration of DMDC3 with external systems in order to meet ABMS/JADC2 directive. - Continue to expand upon and scales IBDSS modernization efforts first developed under IBDSS-2 to include, but not limited to, zero-trust architecture, ML/AI integration, expanded sensor capabilities, UAS/UGV integration, and improved mobile C3.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025									
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604287F I Physical Security Equipment										
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026							
- Continue integration, testing and evaluation equipment to expand the Security Force's Tactical Sensor System (TSS) in support of AFFORGEN. FY 2026 Plans: IBDSS-4 -Will continue to conduct market research, evaluation and testing to address capability gaps and obsolescence to include, but not limited to Force Protection COTS. -Will continue further integration and testing to qualify COTS equipment to provide essential upgrades/improvements and state-of-the-art technology to support integrated based security systems installations worldwide. -Will continue with the integration and/or modification of COTS efforts to improve IBDSS physical security equipment. -Will continue further integration and testing of Defender Multi-Domain Command, Control and Communications (DMDC3) software applications from either COTS suppliers or modified COTS systems. -Will continue integration of DMDC3 with external systems in order to meet ABMS/JADC2 directive. - Will continue to expand upon and scales IBDSS modernization efforts to include, but not limited to, zero-trust architecture, ML/AI integration, expanded sensor capabilities, UAS/UGV integration, and improved mobile C3. - Will continue integration, testing, and evaluation of equipment to expand the Security Force's Tactical Sensor System (TSS) in support of AFFORGEN implementation. FY 2025 to FY 2026 Increase/Decrease Statement: FY2025 to FY2026 slight funding increase due to inflationary changes.											
Accomplishments/Planned Programs Subtotals		9.836	10.569	10.589							
D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 834130: Air Force Physical Security System	87.594	128.546	109.374	-	109.374	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy Air Force Security Force Center (AFSFC) and Force Protection program office investigates requirements to include new and/or obsolete items. COTS sub-systems, equipment and components are competitively acquired from industry after thorough market research. Equipment for testing is purchased via competitive selection processes via direct purchase orders. For security systems COTS that are required to be qualified for nuclear security environments where industry COTS sources may not be mature, consideration is given to replacement of new items or COTS modification through the competitive selection procedure as well.											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604287F I Physical Security Equipment	
Delivery Orders on Indefinite Delivery/Indefinite Quantity contract vehicles or other approved purchase methods are utilized to acquire equipment. The Force Protection program office is developing new capabilities, updating existing capabilities, exploring and fielding COTS capabilities, using existing program efforts and other transactional authorities. Notional strategy to deploy DMDC3 and IBDSS of the future by integrating COTS equipment, such as Lenel, Hirsch, and Genetic equipment, with Vindicator and Advantor IDS systems through a single software solution at various bases to establish a single common operating picture for the Defender community. Supports MOSA standards to enable faster installations and greater interoperability to enable Chief of Staff of the Air Force 'Fight the Base' goals.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604287F / <i>Physical Security Equipment</i>				Project (Number/Name) 655120 / <i>Physical Security Equipment - SD ED</i>					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Integrated Base Defense Security Systems (IBDSS-3)	Various	Various : Various	-	4.021	Apr 2024	2.458	Dec 2024	-		-		-	-	-	-
Integrated Base Defense Security Systems (IBDSS-4)	Various	Various : Various	-	-		-		3.399	Dec 2025	-		3.399	-	-	-
Subtotal			-	4.021		2.458		3.399		-		3.399	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Integrated Base Defense Security Systems (IBDSS-3)	Various	Various : Various	-	4.340	Jun 2024	5.200	Nov 2024	-		-		-	-	-	-
Integrated Base Defense Security Systems (IBDSS-4)	Various	Various : Various	-	-		-		4.070	Nov 2025	-		4.070	-	-	-
Subtotal			-	4.340		5.200		4.070		-		4.070	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Integrated Base Defense Security Systems (IBDSS-3)	Various	Various : Various	-	1.475	Mar 2024	2.911	Feb 2025	-		-		-	-	-	-
Integrated Base Defense Security Systems (IBDSS-4)	Various	Various : Various	-	-		-		3.120	Jan 2026	-		3.120	-	-	-
Subtotal			-	1.475		2.911		3.120		-		3.120	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025				
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604287F / Physical Security Equipment					Project (Number/Name) 655120 / Physical Security Equipment - SD ED					
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.836		10.569		10.589		-		10.589	-	-	N/A

Remarks
Various delivery orders will be awarded throughout the fiscal year for numerous projects.

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604287F / Physical Security Equipment		Project (Number/Name) 655120 / Physical Security Equipment - SD ED	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
FY2024 Events																												
Integrated Base Defense Security Systems (IBDSS-3)																												
FY2025 Events																												
Integrated Base Defense Security Systems (IBDSS-3)																												
FY2026 Events																												
Integrated Base Defense Security Systems (IBDSS-4)																												
FY2027 Events																												
Integrated Base Defense Security Systems (IBDSS-4)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604287F / Physical Security Equipment	Project (Number/Name) 655120 / Physical Security Equipment - SD ED	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
FY2024 Events				
Integrated Base Defense Security Systems (IBDSS-3)	1	2024	4	2024
FY2025 Events				
Integrated Base Defense Security Systems (IBDSS-3)	1	2024	4	2025
FY2026 Events				
Integrated Base Defense Security Systems (IBDSS-4)	1	2025	4	2026
FY2027 Events				
Integrated Base Defense Security Systems (IBDSS-4)	1	2026	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0604288F / <i>Survivable Airborne Operations Center (SAOC)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	1,826.328	0.000	1,826.328	-	-	-	-	-	-
656507: <i>Survivable Airborne Operations Center</i>	0.000	0.000	0.000	1,826.328	0.000	1,826.328	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

SAOC program transitioning from BA04 to BA05, System Development and Demonstration (SDD), in FY26. This is not a new start. Work in FY25 and prior was accomplished in BA04 0604288F.

A. Mission Description and Budget Item Justification

The Survivable Airborne Operations Center (SAOC), E-4C, replaces the aging E-4B fleet, which faces capability gaps, diminishing manufacturing sources, increased maintenance costs, and parts obsolescence as it approaches the end of its serviceable life. SAOC provides the President of the United States (POTUS), the Secretary of Defense (SECDEF), and the Joint Chiefs of Staff (JCS) a worldwide, survivable, and enduring node of the National Military Command System (NMCS) to fulfill national security requirements throughout all stages of conflict. As a command, control and communications center directing US forces, executing emergency war orders and coordinating the activities of civil authorities including national contingency plans, this capability ensures continuity of operations and continuity of government as required in a national emergency or after negation/destruction of ground command and control centers. SAOC fulfills the requirements of the AF Nuclear Mission by providing Nuclear Command, Control and Communications (NC3) capabilities to enable the exercise of authority and direction by the President to command-and control US military nuclear weapons operations.

Program funding supports all activities required to execute development of the SAOC Weapon System to include system development, integration of NC3 and other DoD/AF programs into the SAOC weapon system, test activities, pre-operational product support, and Interim Contractor Support (ICS). Funds also support program office operations, management services (Federally Funded Research and Development Centers [FFRDC], Advisory and Assistance Services [A&AS], etc.), Program Management Administration (PMA), security, facilities, prototyping, equipment, implementation of digital program initiatives, and other required program office capabilities.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024, \$1.540M expended for civilian pay expenses in this program element. In FY 2024, \$4.000M is forecasted for civilian pay expenses in this program element.

The FY 2026 request for SAOC includes \$1,826,328 thousand of discretionary and \$6,800 thousand of mandatory (reconciliation) for a total of \$1,833,128 thousand. The mandatory funds address EMD in FY 2026. Further information for this reconciliation request is provided in Chapter 8 (Nuclear) of the Reconciliation Exhibit.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604288F I Survivable Airborne Operations Center (SAOC)				
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	0.000	1,826.328	0.000	1,826.328
Total Adjustments		0.000	0.000	1,826.328	0.000	1,826.328
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	1,826.328	0.000	1,826.328
Change Summary Explanation						
FY2026 increase due to SAOC program transitioning from BA04 (PE 0604288F) to BA05 (PE 0604288F), System Development and Demonstration (SDD)						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: SAOC				-	0.000	1,826.328
Description: The SAOC weapon system is comprised of a Commercial Derivative Aircraft (CDA), mission system, and ground support systems. The CDA will be hardened to protect against nuclear and electromagnetic effects and modified with an aerial refueling capability to enable sustained airborne operations. The mission system will integrate secure communications and planning capabilities on modern information technology (IT) infrastructure based on a Modular Open System Approach (MOSA). The ground systems include aircrew trainers, mission crew trainers, maintenance training devices, ground support equipment, test and sustainment system integration laboratories, and other ground systems to enable the operations, sustainment, and future modifications of the SAOC weapon system across the lifecycle.						
FY 2025 Plans: FY2025 work was accomplished in BA04 PE64288F						
FY 2026 Plans: The following efforts continue from BA04 PE64288F						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604288F / <i>Survivable Airborne Operations Center (SAOC)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
-Continue executing Engineering and Manufacturing Development (EMD) design activities to include system engineering, trade studies, system/subsystem engineering analysis and preliminary design for the aircraft, mission system, training systems, and supporting systems -Continue supporting development, modernization, and delivery of required NC3, C3, Cryptographic, OA/OMS, and other mission system capabilities to ensure systems are sustainable and available to integrate into the EMD design and overall SAOC Weapon System -Continue to refine and implement the infrastructure, tools, and training necessary for the SAOC Integrated Digital Environment and program execution, enabling the SAOC Program Office to continue to execute and support the development and lifecycle sustainment of the SAOC Weapon System -Continue T&E execution planning and preparation activities including manning, procurement of test equipment, training, and facility modifications; continue early functional testing at the component and LRU levels; continue development of the T&E SIL -Reach and maintain program office manning required to support the SAOC system development -Continue coordination activities with appropriate stakeholders to ensure that SAOC requirements are properly accounted for, and integrated, within facilities currently under development -Continue Product Support Business Case Analysis (PS-BCA) to support Product Support strategies to achieve SAOC capabilities and affordability -Continue follow on Supply Chain Risk Management Analysis and Illumination FY 2025 to FY 2026 Increase/Decrease Statement: Increase due to continuing ramp-up of Test and Evaluation (T&E) preparation activities including manning, procurement of test equipment, training, and facility modifications				
Accomplishments/Planned Programs Subtotals		-	0.000	1,826.328

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604288F I Survivable Airborne Operations Center (SAOC)						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 07 1203001F: Family of Advanced BLoS Terminals (FAB-T)	100.126	2.607	0.303	-	0.303	-	-	-	-	-	-
• RDTE 07 0303140F: Information Systems Security Program	-	-	13.583	-	13.583	-	-	-	-	-	-
• MILCON 32021F	50.100	30.000	102.100	-	102.100	-	-	-	-	-	-
SAOC MILCON:: N/A (2)											
Remarks											
E. Acquisition Strategy											
Based on the Acquisition Strategy approved by Under Secretary of Defense for Acquisition and Sustainment on 30 June 2022, SAOC entered the acquisition pathway at Milestone B and awarded a competitive Development contract with Production and Interim Contractor Support (ICS) Options. This contract requires the Prime contractor to buy the required aircraft, bring each aircraft to a common configuration, make required modifications, develop, and integrate the mission system into each aircraft, provide required ground support systems and conduct contract support operations for fielded systems until the Operations and Support Phase.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604288F / <i>Survivable Airborne Operations Center (SAOC)</i>						Project (Number/Name) 656507 / <i>Survivable Airborne Operations Center</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Prime - EMD	C/CPIF	Sierra Nevada Corporation : Englewood, CO	-	-		-		1,716.997	Oct 2025	-		1,716.997	-	-	-
Mission Systems/ Subsystems Development	C/Various	Various : TBD	-	-		-		41.790	Jan 2026	-		41.790	-	-	-
Subtotal			-	-		-		1,758.787		-		1,758.787	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Mission Support	Various	Various : Bedford, MA : Hanscom AFB, MA, MA	-	-		-		10.434	Oct 2025	-		10.434	-	-	-
Direct Cite Civilian Pay	TBD	Hanscom AFB, MA : Hanscom, AFB, MA	-	-		-		5.492	Oct 2025	-		5.492	-	-	-
Subtotal			-	-		-		15.926		-		15.926	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test and Evaluation	Various	TBD : TBD	-	-		-		16.410	Oct 2025	-		16.410	-	-	-
Subtotal			-	-		-		16.410		-		16.410	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
FFRDC	C/CPFF	Bedford, MA : Hanscom AFB, MA	-	-		-		14.000	Oct 2025	-		14.000	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
3600 / 5						PE 0604288F / Survivable Airborne Operations Center (SAOC)				656507 / Survivable Airborne Operations Center					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
A&AS	C/CPFF	Bedford, MA : Hanscom AFB, MA	-	-		-		15.296	Oct 2025	-		15.296	-	-	-
PMA - Other	Various	Bedford, MA : Hanscom AFB, MA	-	-		-		5.909	Oct 2025	-		5.909	-	-	-
Subtotal			-	-		-		35.205		-		35.205	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		1,826.328		-		1,826.328	-	-	N/A
Remarks															
Remarks															
Product Development:															
FY2026: Prime line includes a Termination Liability of 196.536M, Anti-deficiency Act requires an agency have sufficient funds available to pay TL if and when the contingency materializes.															
-FY 2026 decrease in Directed Mission Systems due to FAB-T terminal purchases completing															
-FY 2026 increase in Prime Contract due to continued progression and expansion of system engineering and design activities commensurate with progress in EMD and the SAOC EMD Contract															
Support:															
-FY 2026 increase in DCA continues office manning growth path required to continue to support SAOC EMD execution															
-FY 2026 decrease in Direct Mission Support is due to finalizing deployment of digital engineering infrastructure															
Test and Evaluation (T&E):															
-FY 2026 increase in T&E is due to continuing ramp-up of T&E preparation activities including manning, procurement of test equipment, training, and facility modifications; early functional testing at the component and LRU levels and development of the T&E SIL.															
Management Services:															
-FY 2025 and FY 2026 increases in FFRDC and A&AS attributed to continuing program office ramp-up to support concurrent air vehicle, mission system, training systems, and ground support facility design, development and all test activities.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0604288F / Survivable Airborne Operations Center (SAOC)					656507 / Survivable Airborne Operations Center			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Survivable Airborne Operations Center Development																												
EMD																												
SRR/SFR																												
Preliminary Design Phase																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604288F / Survivable Airborne Operations Center (SAOC)	Project (Number/Name) 656507 / Survivable Airborne Operations Center

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Survivable Airborne Operations Center Development				
EMD	3	2024	4	2030
SRR/SFR	2	2025	1	2026
Preliminary Design Phase	4	2025	1	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	5.036	5.417	7.253	0.000	7.253	-	-	-	-	-	-
653133: <i>Bombs & Fuzes</i>	0.000	0.800	1.163	1.571	0.000	1.571	-	-	-	-	-	-
655361: <i>Stores-Aircraft Interface</i>	0.000	4.236	4.254	5.682	0.000	5.682	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Armament Ordnance Development program funds open standards development and maturation for adoption by USAF, Joint, and Coalition weapon systems for rapid integration, support, and operational use of the full range of armament capabilities. Weapons and weapon systems implementation of open armament interface standards provides rapid integration of software-defined capabilities, reduces development timelines, lowers life-cycle cost, and ensures interoperability with emerging capabilities.

This budget funds the Universal Armament Interface (UAI), a matured DAF-owned standard, that provides the continuous development, characterization, and improvements required to ensure integration for current, future, and legacy munitions, ammunitions, delivery systems, and subsystems. The UAI delivers the standards needed to integrate new weapon capabilities on platforms at the speed of software, independent of aircraft Operational Flight Program (OFPs) cycles; thus, reducing costly regression testing for flight safety critical aircraft software. Planned implementations include Joint Strike Fighter (JSF/F-35), F-15EX, F-16 F-47, CCA, B-21, B-1, B-2, B-52, MQ-9, Advanced Anti-Radiation Guided Missile - Extended Range (AARGM-ER), Joint Air-to-Surface Standoff Missile (JASSM), Joint Direct Attack Munition (JDAM), SDB I & II, Stand-in Attack Weapon (SiAW), Long Range Anti-Ship Missile (LRASM), Grey Wolf, Select Precision Effects At Range Capability 3 (SPEAR3), Joint Strike Missile (JSM), and Next-Generation Open Mission Services (NOMS) for mission planning.

Funding directly supports the development, enhancement, and sustainment of open armament standards to support the emerging needs of the above adopting platforms. That ensures technical currency, support to coalition/joint interoperability efforts for weapons-platform interface, certification tools, and implementation support to aircraft and weapons. Funding also supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.

The FY2026 request was reduced by \$.061 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604602F I Armament/Ordnance Development			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	5.918	7.157	7.338	0.000	7.338
Current President's Budget	5.036	5.417	7.253	0.000	7.253
Total Adjustments	-0.882	-1.740	-0.085	0.000	-0.085
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-0.716	-1.740			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.166	0.000			
• Other Adjustments	0.000	0.000	-0.085	0.000	-0.085
Change Summary Explanation					
The FY 2024 was reduced 0.716 million for Congressional mark due to growth exceeding inflation rate as well as reduced by 0.166 million due to SIBR.					
The FY 2025 was reduced 1.740 million due to Congressional Mark for Unjustified growth.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development				Project (Number/Name) 653133 / Bombs & Fuzes			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
653133: Bombs & Fuzes	0.000	0.800	1.163	1.571	0.000	1.571	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Bombs & Fuzes project improves conventional weapons/munitions (kinetic and non-kinetic), fuzes, and height-of-burst sensors (HOBS), and develops and integrates complementary common weapon components, data links, position, navigation, and timing (PNT) capabilities (i.e. GPS, non-GPS, optical, passive, active, etc.) using modern acquisition best practices, to include digital acquisition practices (e.g. government-owned open system architectures, Model Based Systems Engineering (MBSE) and agile software development). It also provides for the development and testing necessary for a suitable manufacturing base of conventional warheads, fuzes, HOBS, and munitions materiel handling equipment (MMHE). Bombs & Fuzes also provides research, development, testing, and guidance of conventional warheads, fuzing, HOBS modifications, and anti-personnel anti-materiel (APAM) weapons to improve lethality and survivability against area, mobile, hard and deeply buried, and fixed targets. Finally, this project provides an opportunity to quickly insert emerging technologies into existing and developing aircraft munitions and fuzes and supports strategic planning to achieve compliance of AF munitions with Department of Defense insensitive munitions (IM) standards.

- Munitions Materiel Handling Equipment (MMHE): MMHE is a continuing project to develop and improve the standardization and commonality of munitions handling and armament equipment to preclude duplication. Efforts are primarily the study, design, and development of MMHE and armament control systems; however, support may be provided to other functional areas as requested. Procurement will be performed and funded by the applicable weapons system project.

- Medium Caliber Ammunition project assesses, refines, and develops medium caliber ammunition, to include, but not limited to, conducting 25mm (F-35) qualification testing, comparative testing, and mitigating ammunition inventory health issues.

- Insensitive Munitions (IM) and Emerging Technologies: IM projects support AF IM strategic planning to achieve IM compliance IAW U.S. Code, Title 10, Subtitle A, Part N, Chapter 141, Section 2389, ensuring safety regarding insensitive munitions. Develops and validates IM models against current munition performance, addresses IM explosive fill deficiencies and develops munition modifications to improve the response of conventional weapons to unplanned stimuli. This project also explores and develops Emerging Technology by analyzing and evaluating current systems to integrate new technologies for both future and existing munitions. New technologies include but are not limited to improve guidance kits, case materials, new weapon designs, energetics and fuze capabilities to improve lethality, survivability, penetration, accuracy, and reliability in accordance with the National Defense Strategy roadmap.

- DSU-43/B Cockpit-selectable Height-Of-Burst Sensor (C-HOBS): The C-HOBS will be a replacement for the current DSU-33D/B proximity sensor. C-HOBS will replace the single factory height-of-burst setting with the addition of multiple height-of-burst options selectable via both manual switches and a cockpit interface. These selection options allow flexibility during flight to address a wide array of targets. The C-HOBS is intended to interface with Combat Air Forces (CAF) aircraft and provide proximity height-of-burst functionality to general and special purpose weapons (to include NGAAWs).

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 653133 / Bombs & Fuzes		
Implements Digital Acquisition tenants of Open, Agile, and Digital; builds and establishes industrial base innovation around the program's enterprise for modularity and adaptability for the life cycle of the weapons system. Leverages common component development, in collaboration with other weapon systems, to reduce redundant costs between systems with similar subsystems requirements. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions. Expands program office staff, facilities, and security infrastructure to support the required classification levels for this program's activities. Engages with DoD, DAF, and industry stakeholders to refine threat analysis, refine inventory requirements, and plan upgrade requirements. Capitalizes on and incorporates successful laboratory research and development efforts applicable to this program's capability.				
This effort includes design, development, test, integration, and implementation of appropriate modular open systems approach, related components, and efforts, such as, but not limited to electrical, logical, and physical interfaces defined in relevant Open System Architecture (OSA) standards. This approach allows modular and severable subsystems, to include those that are software-defined, at the appropriate level to be incrementally added, removed, or replaced throughout the life cycle.				
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 0605831F. In FY24 0.255M was expended for civilian pay expenses in this program element, and in FY25 0.406M is forecasted for civilian pay expenses in this program element.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Munitions Materiel Handling Equipment (MMHE)		0.680	1.163	1.225
Description: Armament Standardization/Control/Munitions Materiel Handling Equipment (MMHE) is a continuing project to develop and improve the standardization and commonality of munitions handling and armament equipment to preclude duplication. Efforts are primarily the study, design, and development of MMHE and armament control systems; however, support may be provided to other functional areas as requested. Procurement will be performed and funded by the applicable weapons system project.				
FY 2025 Plans: Continuation of MMHE support projects to include engineering, drafting, proof load, technical data, and safety authorizations. Fabricate prototypes for test and evaluation purposes. Continue first article equipment fabrications for drafting verification and delivery to Air Force units for additional test and evaluation. Provide support to all system program offices with new weapons and aircraft configurations, as needed. Continue support to the F-35 with designs and manufacturing of equipment to aid safe munitions loading and handling of various pylons and adapters. Continue to support the B-21 program office with evaluations and recommendations for equipment to aid safe munitions loading and handling of various pylons and adapters. Continue support to DARPA with designs and manufacturing of equipment to aid safe munitions loading and handling of hypersonic weapons. Continue support for Air Force Research Laboratory on future munition concept demonstrators.				
FY 2026 Plans:				

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 653133 / Bombs & Fuzes		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Continuation of MMHE support projects to include engineering, drafting, proof load, technical data, and safety authorizations. Fabricate prototypes for test and evaluation purposes. Continue first article equipment fabrications for drafting verification and delivery to Air Force units for additional test and evaluation. Provide support to all system program offices with new weapons and aircraft configurations, as needed. Continue support to the F-35 with designs and manufacturing of equipment to aid safe munitions loading and handling of various pylons and adapters. Continue to support the B-21 program office with evaluations and recommendations for equipment to aid safe munitions loading and handling of various pylons and adapters. Continue support to DARPA with designs and manufacturing of equipment to aid safe munitions loading and handling of hypersonic weapons. Continue support for Air Force Research Laboratory on future munition concept demonstrators. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase due to higher tempo and more requirements for aircraft configuration and continued support to the F-35 with designs and manufacturing of equipment.				
Title: Medium Caliber Ammunition Description: The Medium Caliber Ammunition efforts support the warfighter's medium caliber ammunition research, development, test, and evaluation (RDT&E) requirements, DoN/USAF collaboration for the medium caliber family of ammunition, foreign comparative testing, inventory health challenges, procurement of ammunition, and other emerging technologies. FY 2025 Plans: FY 25 No activity in FY25 due to the Congressional reduction FY 2026 Plans: Provide engineering and technical support for PGU-48/B rounds as well as further comparative testing/EMD of alternative products/sources. Assess and mitigate Medium Caliber ammunition inventory health challenges. FY 2025 to FY 2026 Increase/Decrease Statement: Increase due to continuing Med Cal efforts.		0.100	0.000	0.100
Title: Insensitive Munitions (IM) and Emerging Technology Description: Model and validate current munition performance; explore and develop IM and Energetics technology; assess, analyze, and evaluate emerging and developed technologies for future and existing weapon and fuze capabilities to improve lethality, accuracy, and reliability in accordance with the National Defense Strategy roadmap. FY 2025 Plans: No activity in FY25 due to Congressional reduction. FY 2026 Plans:		0.020	0.000	0.240

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>				Project (Number/Name) 653133 / <i>Bombs & Fuzes</i>				
B. Accomplishments/Planned Programs (\$ in Millions) Provide guidance to ensure munitions are as safe as practical to include; assessing, analyzing, and evaluating emerging and future development of technologies in our weapons. Enhance and evolve direct attack weapon capabilities by identifying new technology through collaboration with industry, academia, and other government stakeholders and uniting specialized expertise. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Increase for continuing Insensitive Munitions efforts										FY 2024	FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals										0.800	1.163	1.571
C. Other Program Funding Summary (\$ in Millions)												
			FY 2026	FY 2026	FY 2026						Cost To	
Line Item	FY 2024	FY 2025	Base	OOB	Total	FY 2027	FY 2028	FY 2029	FY 2030	Complete	Total Cost	
• PAAF 01 Line Item 356120: <i>Fuzes</i>	82.226	49.209	127.126	-	127.126	-	-	-	-	-	-	
• PAAF 01 Line Item 352010: <i>Cartridges</i>	103.206	85.738	127.348	-	127.348	-	-	-	-	-	-	
Remarks D. Acquisition Strategy - Fuzes (including C-HOBS) is a continuing effort with most activities performed through contracted services. - Munitions Materiel Handling Equipment (MMHE) project activities are performed in-house with limited technical and analysis contract support. - Medium Caliber Ammunition project activities are performed in-house with technical and analysis contract support, organic government test support, and possible contracted services (small contracts). - Insensitive Munitions project activities are performed in-house with limited technical and analysis contract support -Emerging Technologies are innovative efforts with most activities performed through various contracted services such as OTA's and DOTC; a limited number of activities such as technical analysis and test are performed by organic resources and support contractors.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development				Project (Number/Name) 653133 / Bombs & Fuzes					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Emerging Technology/IM	Various	Various : Eglin AFB, FL	-	0.020	Mar 2024	0.000	Mar 2025	0.100	Mar 2026	-		0.100	-	-	-
MMHE - Prototypes	Various	Prototype Fabrication Shop : Eglin AFB, FL	-	0.205	Jan 2024	0.753	Jan 2025	0.795	Jan 2026	-		0.795	-	-	-
CHOBS - HW/SW	C/Various	Various : Eglin AFB, FL	-	0.166	Jan 2024	-		-		-		-	-	-	-
Subtotal			-	0.391		0.753		0.895		-		0.895	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MMHE - Shipping/Supplies	Various	MMHE Program Office : Eglin AFB, FL	-	0.050	Nov 2023	0.032	Nov 2024	0.050	Nov 2025	-		0.050	-	-	-
Subtotal			-	0.050		0.032		0.050		-		0.050	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MMHE - Test Support	PO	96 TW : Eglin AFB, FL	-	0.025	Nov 2023	0.025	Nov 2024	0.050	Nov 2025	-		0.050	-	-	-
Emerging Technology - Test Wing	PO	96 TW : Eglin AFB, FL	-	-		0.000	Nov 2024	0.046	Nov 2025	-		0.046	-	-	-
Subtotal			-	0.025		0.025		0.096		-		0.096	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development						Project (Number/Name) 653133 / Bombs & Fuzes			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
IM and Emerging Technology- PMA	Various	Various : Eglin AFB, FL	-	0.000	Dec 2023	0.000	Dec 2024	0.100	Dec 2025	-		0.100	-	-	-
Medium Caliber - PMA	Various	Various : Eglin AFB, FL	-	0.000	Jun 2024	0.000	Jun 2025	0.100	Jun 2026	-		0.100	-	-	-
MMHE - PMA	Various	Various : Eglin AFB, FL	-	0.334	Jan 2024	0.353	Jan 2025	0.330	Jan 2026	-		0.330	-	-	-
Subtotal			-	0.334		0.353		0.530		-		0.530	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.800		1.163		1.571		-		1.571	-	-	N/A
Remarks Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0604602F / Armament/Ordnance Development					653133 / Bombs & Fuzes			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Bombs and Fuzes																												
MMHE: design, prototype, test priority efforts																												
IM and Emerging Technologies																												
Medium Caliber Ammunition: Assess, refine, and develop																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 653133 / Bombs & Fuzes	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Bombs and Fuzes				
MMHE: design, prototype, test priority efforts	1	2024	4	2030
IM and Emerging Technologies	1	2024	4	2030
Medium Caliber Ammunition: Assess, refine, and develop	1	2024	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development				Project (Number/Name) 655361 / Stores-Aircraft Interface			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
655361: Stores-Aircraft Interface	0.000	4.236	4.254	5.682	0.000	5.682	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Armament Ordnance Development program funds open standards development and maturation for adoption by USAF, Joint, and Coalition weapon systems for rapid integration, support, and operational use of the full range of armament capabilities. Weapons and weapon systems implementation of open armament interface standards provides rapid integration of software-defined capabilities, reduces development timelines, lowers life-cycle cost, and ensures interoperability with emerging capabilities. The Stores-Aircraft Interface project conducts stores-aircraft interface upgrades and standards development to include the Universal Armament Interface (UAI).

This budget funds the Universal Armament Interface (UAI), a matured DAF-owned standard, that provides the continuous development, characterization, and improvements required to ensure integration for current, future, and legacy munitions, ammunitions, delivery systems, and subsystems. The UAI delivers the standards needed to integrate new weapon capabilities on platforms at the speed of software, independent of aircraft Operational Flight Program (OFPs) cycles; thus, reducing costly regression testing for flight safety critical aircraft software. Planned implementations include Joint Strike Fighter (JSF/F-35), F-15EX, F-16 F-47, CCA, B-21, B-1, B-2, B-52, MQ-9, Advanced Anti-Radiation Guided Missile - Extended Range (AARGM-ER), Joint Air-to-Surface Standoff Missile (JASSM), Joint Direct Attack Munition (JDAM), SDB I & II, Stand-in Attack Weapon (SiAW), Long Range Anti-Ship Missile (LRASM), Grey Wolf, Select Precision Effects At Range Capability 3 (SPEAR3), Joint Strike Missile (JSM), and Next-Generation Open Mission Services (NOMS) for mission planning.

Funding directly supports the development, enhancement, and sustainment of open armament standards to support the emerging needs of the above adopting platforms and more. That ensures technical currency, support to coalition/joint interoperability efforts for weapons-platform interface, certification tools, and implementation support to aircraft and weapons. Funding also supports the integration of the Common Flexible Weapon Interface (CFWI), providing a unified interface standard for air-to-air and air-to-ground weapons. Additionally, funding supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs.

In October 2024, the Armament Ordnance Development program that managed this funding transitioned to the Architecture and Systems Engineering (ASE) group, Air Force Life Cycle Management Center (AFLCMC), Wright Patterson AFB. In addition to this PE, the ASE group will continue execution of these related activities under the following PEs:
0305206F / Airborne Reconnaissance Systems (672003 / Sensor Open Systems Architecture)
0605056F / Open Architecture Management (656060 / Standards Management)

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Title: Universal Armament Interface (UAI) Development		4.236	4.254
Description: Funding directly supports the development, enhancement, and sustainment of open armament standards to support the emerging needs of the above adopting platforms. That ensures technical currency, support to coalition/joint interoperability efforts for weapons-platform interface, certification tools, and implementation support to aircraft and weapons. Funding also supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/ demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs.			5.682
FY 2025 Plans: - Mature open interface standards to include: mission planning data modeling, subsystem enhancements - Develop Long-Range Kill Chain (LRKC) configuration specifications for data links - Conduct initial integration activities for alignment with Common Flexible Weapon (CFW) Interface - Upgrade and maintain software certification tool to support planned implementation platforms - Update user interface tool to ease implementation and reduce specialized training			
FY 2026 Plans: - Continue technical maturation of the UAI standard - Implement and continue development of LRKC configuration specifications for data links - Integrate the UAI and CFW interfaces into a common open armament interface - Continue to maintain currency of the source of truth for DAF-owned open armament standards - Increase model-based system engineering (MBSE) products within open standards for rapid digital integration by adopting platforms			
FY 2025 to FY 2026 Increase/Decrease Statement: FY26 funding increases due to inflation and growth of open armament interface development required to support Long Range Kill Chain configuration and implementation. In addition, it includes scope to integrate the UAI and Common Flexible Weapon interfaces into a common armament interface.			
Accomplishments/Planned Programs Subtotals		4.236	4.254
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 655361 / Stores-Aircraft Interface
D. Acquisition Strategy The UAI program office operates four Cost Plus Fixed Fee (CPFF) contracts direct to Original Equipment Manufacturers to continue standards development and maturation activities for open armament interfaces. The UAI office projects a short follow-on contract award in May 2025 to continue the development, maturation, and sustainment of highly specialized equipment (Certification Tools) and Subject Matter Experts (SME). Program management for the UAI program transitioned from the Fighters & Advanced Aircraft Directorate to the Architecture and Systems Engineering (ASE) group, Air Force Life Cycle Management Center (AFLCMC), located at Wright Patterson Air Force Base, Ohio. The above short contracting effort will bridge the gap for the new contract being developed under the ASE to curate, mature, integrate, and field several open architectures, including UAI. The period of performance for this effort begins August 2025. Additionally, UAI leverages technical expertise provided by Government Agencies, Federally Funded R&D Centers, and advisory/assistance contractors.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development				Project (Number/Name) 655361 / Stores-Aircraft Interface					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Interface Control Document (ICD) Development/Updates/Maintenance	C/CPFF	Various : Various	-	4.175	Nov 2023	4.174	Nov 2024	5.587	Nov 2025	-		5.587	-	-	-
Subtotal			-	4.175		4.174		5.587		-		5.587	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration	Various	UAI Program Office : Wright Patterson AFB, OH	-	0.061	Jun 2024	0.080	Jun 2025	0.095	Jun 2026	-		0.095	-	-	-
Subtotal			-	0.061		0.080		0.095		-		0.095	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	4.236		4.254		5.682		-		5.682	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development		Project (Number/Name) 655361 / Stores-Aircraft Interface	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Stores-Aircraft Interface																												
Governance (Super Joint Interface Control Working Group)																												
Platform-Store Interface Control Document Update and Deliveries																												
Common Flexible Weapon (CFW) Interface Control Document (ICD) Incorporation																												
System Integration Lab (SIL) Certification Tool (CT) software update and release																												
Mission Planning (MP) software update and release																												
Weapon and Aircraft Development/ Sustainment Activities (e.g., F-47, B-21, JDAM, etc.)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 655361 / Stores-Aircraft Interface	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Stores-Aircraft Interface				
Governance (Super Joint Interface Control Working Group)	1	2024	4	2030
Platform-Store Interface Control Document Update and Deliveries	1	2025	4	2030
Common Flexible Weapon (CFW) Interface Control Document (ICD) Incorporation	1	2024	4	2027
System Integration Lab (SIL) Certification Tool (CT) software update and release	1	2024	4	2030
Mission Planning (MP) software update and release	1	2024	4	2030
Weapon and Aircraft Development/Sustainment Activities (e.g., F-47, B-21, JDAM, etc.)	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0604604F / <i>Submunitions</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	3.345	3.427	3.502	0.000	3.502	-	-	-	-	-	-
653166: <i>Joint Smart Munitions Test and Evaluation</i>	0.000	3.345	3.427	3.502	0.000	3.502	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project Chicken Little (PCL) continues providing superior rapid reaction signature exploitation capabilities for use on both the traditional and the asymmetrical battlefield. PCL delivers vital one-of-a-kind research, development, test, and evaluation (RDT&E) expertise directly to the warfighter, capability developer, and allied/coalition forces.

From its inception in 1985, PCL constantly advances the state-of-the-art for developmental smart munitions, seekers/sensors, and their platforms. PCL also focuses its capability against today's networked weapons, emerging weapon concepts, and assists development of innovative targeting technologies to be employed against a wide variety of vehicle targets, theater air defense units, and an extensive array of associated equipment.

Combat systems and support equipment exhibit physical characteristics (i.e. signatures) and present certain vulnerabilities, which can be exploited by various targeting technologies leading to the elimination or incapacitation of the threat through the application of force (e.g. smart munitions or directed energy) or application of intelligence, surveillance, reconnaissance (ISR) methods. PCL collects physical, functional, and signature attributes of real foreign threat systems and related equipment; this data feeds high-fidelity models used to predict detection, classification, vulnerability, and effectiveness performance for ISR sensor and weapon system design. PCL collects high resolution signature data using a variety of ground, air, and space-based sensors against both new and existing (obtained, sustained, and maintained to be signature representative) foreign targets; with and without the presence of camouflage, concealment, and deception materials; and operated using enemy tactics/Concept of Operations (CONOPS). The resulting highly reliable, realistic data directly support munitions/targeting development programs and helps mitigate overall acquisition risk. PCL serves as a major focal point for joint signature exploitation, collection, and dissemination within the DoD. PCL is a prime contributor in the time critical process to rapidly exploit, assess, and determine US and allied weapon/targeting performance against high value targets. Customers include: the major Defense and Service Intelligence Centers, all Services, the Joint Technical Coordinating Group (JTCG) who develop the Joint Munitions Effectiveness Manuals (JMEMs), Combatant Commands, AF Major Commands, US Air Force Weapons School curriculum support, and others. Current projects include, but are not limited to: target signature exploitation, target geometric modeling (for identifying vulnerabilities), improving air capabilities against protected structures (specifically hard and deeply buried targets), and the testing of multiple seekers, sensors, and targeting technologies in representative environments against Combatant Command/Major Command/Intelligence Community high value targets.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604604F I Submunitions				
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		3.345	3.427	3.513	0.000	3.513
Current President's Budget		3.345	3.427	3.502	0.000	3.502
Total Adjustments		0.000	0.000	-0.011	0.000	-0.011
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-0.011	0.000	-0.011
Change Summary Explanation						
No Significant Changes						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Project Chicken Little (PCL)				3.345	3.427	3.502
Description: Provide the DoD community accurate multi-spectral signatures obtained from high-value, signature representative modern threat systems using advanced collection technologies. Exploitations typically occur CONUS; however, PCL is postured to support OCONUS collections as dictated by mission requirements.						
A critical underpinning of the System Exploitation major thrust area, Sensor Week, occurs every two years and provides a unique air and ground demonstration/validation of candidate Seeker/Sensor/Intelligence, Surveillance, and Reconnaissance (ISR) technologies.						
Plan and conduct captive carry flight tests and signature collection for seeker/sensor technology evaluations.						
Develop, validate, and accredit improved models for target vulnerability and weapons effectiveness in support of Combatant Commands' (COCOMs) requirements.						
FY 2025 Plans:						
Continue to exploit high value threat systems through quarterly test events. Provide signature data from multiple threat systems in various environments using advanced and developmental seeker/sensor technologies.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604604F / <i>Submunitions</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Conduct Acoustic Week, providing a distinct forum for joint service demonstration of developmental and operational acoustic sensors against a wide array of US, coalition, and foreign national ground targets. Sensor platforms will include highly proliferated and asymmetric threat Unmanned Aerial Systems (UAS). Exploit the signatures of ISR targets; conduct performance analysis & evaluations through rapid reaction performance analysis in support of COCOM/MAJCOM immediate/urgent warfighter needs; optimize current project methods to support ISR testing; capture/catalog multi-spectral signatures on asymmetric threat UAS. Assist in obtaining relevant, high value, and emergent threat assets and/or decoys. Ensure the threat assets remain properly "signature representative" for systems development and testing. Develop, validate, and accredit improved computer models to determine target vulnerability and weapons effectiveness in support of warfighter requirements. FY 2026 Plans: Continue to exploit high value threat systems through quarterly test events. Provide signature data from multiple threat systems in various environments using advanced and developmental seeker/sensor technologies. Conduct Sensor Week (SW), providing a singularly unique forum for joint service demonstration of developmental and operational seekers/sensors/ISR assets against a wide array of US, coalition, and foreign national ground targets. Exploit the signatures of ISR targets; conduct performance analysis & evaluations through rapid reaction performance analysis in support of COCOM/MAJCOM immediate/urgent warfighter needs; optimize current project methods to support ISR testing; capture/catalog multi-spectral signatures on asymmetric threat UAS. Assist in obtaining relevant, high value, and emergent threat assets and/or decoys. Ensure the threat assets remain properly "signature representative" for systems development and testing. Develop, validate, and accredit improved computer models to determine target vulnerability and weapons effectiveness in support of warfighter requirements. FY 2025 to FY 2026 Increase/Decrease Statement: Increase due to a slight increase in analysis and evaluations				
Accomplishments/Planned Programs Subtotals		3.345	3.427	3.502
D. Other Program Funding Summary (\$ in Millions) N/A Remarks				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604604F I Submunitions	
E. Acquisition Strategy Funds are executed organically in support of test and evaluation activities including studies, analyses, flight & ground tests, model building and simulation. Work is performed organically by the 96th Test Wing.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604604F / Submunitions				Project (Number/Name) 653166 / Joint Smart Munitions Test and Evaluation					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Maintain Test Asset Relevancy	PO	Various : Las Vegas, NV	-	0.800	Nov 2023	0.800	Nov 2024	0.800	Nov 2025	-		0.800	-	-	0.800
Subtotal			-	0.800		0.800		0.800		-		0.800	-	-	N/A
Remarks Fleet relevance addresses the acquisition of new and emerging threat vehicles, acquisition of high fidelity decoys, and sustainment of fleet signature quality.															
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Conduct Test and Analysis	MIPR	96th Test Wing : Eglin AFB, FL	-	2.451	Nov 2023	2.527	Nov 2024	2.592	Nov 2025	-		2.592	-	-	-
Subtotal			-	2.451		2.527		2.592		-		2.592	-	-	N/A
Remarks 96th Test Wing (96 CTG, 46 TS) is the Program Office which conducts inhouse testing.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Management Services	MIPR	46TS/TGGBB : Eglin, FL	-	0.094	Nov 2023	0.100	Nov 2024	0.110	Nov 2025	-		0.110	-	-	-
Subtotal			-	0.094		0.100		0.110		-		0.110	-	-	N/A
Remarks 96th Test Wing (96 CTG, 46 TS) is the Program Office which conducts in house testing.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	3.345		3.427		3.502		-		3.502	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force							Date: June 2025			
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0604604F / Submunitions		Project (Number/Name) 653166 / Joint Smart Munitions Test and Evaluation				
	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604604F / Submunitions					Project (Number/Name) 653166 / Joint Smart Munitions Test and Evaluation									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Project Chicken Little; JMT&E																												
Target/warhead evaluation/analysis, signature test, captive carry flight tests.																												
FY24 Sensor Week																												
FY25 Acoustic Week																												
FY26 Sensor Week																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604604F / Submunitions	Project (Number/Name) 653166 / Joint Smart Munitions Test and Evaluation

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Project Chicken Little; JMT&E				
Target/warhead evaluation/analysis, signature test, captive carry flight tests.	1	2024	4	2030
FY24 Sensor Week	1	2024	4	2024
FY25 Acoustic Week	1	2025	3	2025
FY26 Sensor Week	1	2026	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	50.747	23.635	23.474	0.000	23.474	-	-	-	-	-	-
652895: <i>Civil Engineering Readiness</i>	0.000	50.747	21.581	21.697	0.000	21.697	-	-	-	-	-	-
654910: <i>Aeromedical Readiness</i>	0.000	0.000	2.054	1.777	0.000	1.777	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program provides lighter, leaner, rapidly-deployable and technologically-advanced material, and capabilities to the warfighter. Current projects in this program include Civil Engineering Readiness (Project 652895) and Aeromedical Readiness (Project 654910). Civil Engineering Readiness projects enable airfield protection, and airfield damage recovery for sustainment, and increased resiliency of airfield operations anywhere in the world. Aeromedical Readiness projects provide aerospace medical systems and treatment equipment to improve casualty care and meet worldwide warfighter medical operational requirements.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY25 \$0.000 was expended for civilian pay expenses in this program element, and in FY26 \$0.000 is forecast for civilian pay expenses in this program element.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	21.967	24.178	24.502	0.000	24.502
Current President's Budget	50.747	23.635	23.474	0.000	23.474
Total Adjustments	28.780	-0.543	-1.028	0.000	-1.028
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-0.543			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	30.500	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.720	0.000			
• Other Adjustments	0.000	0.000	-1.028	0.000	-1.028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604617F I Agile Combat Support	
Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2024	FY 2025
Project: 652895: Civil Engineering Readiness			
Congressional Add: Per- and Poly-Fluoroalkyl Substances (PFAS) Destruction Technology		14.451	0.000
Congressional Add: Arctic Capable Shelter		5.298	0.000
Congressional Add: Automated Heavy Machinery		9.634	0.000
Congressional Add: Arctic Campaigning		0.000	0.000
Congressional Add Subtotals for Project: 652895		29.383	0.000
Congressional Add Totals for all Projects		29.383	0.000
Change Summary Explanation			
FY24 Congressional adds total \$30.5M. Include \$15M for PFAS destruction technology, \$5.5M for Arctic capable pre-positioned shelter, and \$10M for Automated heavy machinery.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support				Project (Number/Name) 652895 / Civil Engineering Readiness			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
652895: Civil Engineering Readiness	0.000	50.747	21.581	21.697	0.000	21.697	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Civil Engineering (CE) Readiness project develops Airbase Technologies (ABT), Airfield Damage Repair (ADR), Airfield Protection (AP), Energy & Utilities (E&U), and CE Materials (CEM) solutions for in-garrison, expeditionary, and contingency installations and airbases. This includes: technologies for airfield assessment, pavement repair and unexploded ordnance identification and mitigation to enable rapid recovery and regeneration of airfield operations; infrastructure design criteria, construction methods, hardened shelters, evaluation tools, materials, aviation firefighting, force protection, expeditionary energy, waste water recycling/treatment, CE materials applications and systems for improved resiliency and rapid recovery of airbase and airfield operations following an attack.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY2025 \$0.000 was expended for civilian pay expenses in this program element, and in FY2026 \$0.000 is forecast for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Airbase Technologies	7.047	7.531	7.522
Description: Technical support providing RDT&E capabilities for cross-cutting CE applications and processes for all CE functional areas. Provides replacements and repair of critical RDT&E lab equipment, test systems and instruments. Specialized RDT&E systems and software required to conduct CE RDT&E.			
FY 2025 Plans: Develop and test material technologies for indigenous soil-based cements and minimal basing processes including bio-based cementation for expeditionary ADR, test and evaluate low resource manufacturing technologies for reduced life cycle costs, development and testing of additive manufacturing approaches for CE applications, develop functionalized materials for hardened infrastructure and force protection applications, evaluation, treatment, and mitigation technologies foe AFFF and development and testing of next generation fire-fighting and fire suppression agents, evaluate expeditionary energy, utility, and infrastructure improvements, energy storage systems and incorporate renewable energy systems with USAF assets. Replace/repair critical RDT&E lab equipment. Fund program management support, RDT&E IT systems and software required to conduct CE RDT&E.			
FY 2026 Plans: Continue development and testing of new civil engineer material technologies and minimal basing processes including bio-based cementation for expeditionary ADR, test and evaluation of low resource manufacturing technologies for reduced life cycle costs,			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>		Project (Number/Name) 652895 / <i>Civil Engineering Readiness</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
development and testing of additive manufacturing approaches for CE applications, development of functionalized materials for hardened infrastructure and force protection applications, evaluation, treatment, and mitigation technologies for Aqueous Film Forming Foam (AFFF) and development and testing of next generation fire-fighting and fire suppression agents, evaluation of expeditionary energy, utility, and infrastructure improvements, energy storage systems and incorporation of renewable energy systems with USAF assets. Replace/repair critical RDT&E lab equipment. Fund program management support, RDT&E IT systems and software required to conduct CE RDT&E.					
FY 2025 to FY 2026 Increase/Decrease Statement: Slight decrease in development of technologies for energy generation, water purification, reduction/mitigation of waste streams and low resource manufacturing of infrastructure and supporting equipment.					
Title: Airfield Damage Repair			8.171	8.375	8.510
Description: This effort develops, tests, and certifies equipment, materials, and Tactics, Techniques, and Procedures (TTPs) for the rapid assessment and repair of airfield damage, which includes identification, mitigation or removal of unexploded ordnance and expedient repairs for fuel and utility systems. This effort will also accelerate the transition of proven technologies and sustained protection of critical infrastructure, including operating surfaces, shelters, fuel storage and distribution systems, and command and control (C2) systems. Further, this effort focuses on the resiliency of airbase infrastructure as well as the timely repair and regeneration of airfield operations within established time limits in order to gain and maintain air superiority.					
FY 2025 Plans: Mature and transition rapid assessment, mitigation, and repair tools and material solutions for airfield damage recovery through research, development, testing, and evaluation. Rapid assessment includes spiral development and integration of small unmanned aircraft systems (SUAS), mobile towers, and handheld platforms to utilize various sensors, to provide data for automated damage detection software solutions to significantly decrease damage assessment time and improve automated detection of unexploded ordnance (UXO). In order to meet improved sensor requirements for enhanced detection and classification of damage/debris, new platforms will be identified to meet current and future needs. Develop, test and evaluate systems to remotely remove and neutralize UXO through a family of Rapid Explosive Hazard Mitigation (REHM) components. This family of systems will include manned and unmanned systems with improved blast resistance capability to fit on both new and existing heavy equipment, physical destruction of UXO through stand-off methods, and Subsurface Location, Access, and Mitigation (SLAM) of buried UXO. Repair of damage focuses on development, testing, and transition of materials and equipment sets for rapid recovery of enemy induced battle damaged runways. New materials will have minimal dependence on shipping and logistics through use of indigenous materials, with new techniques and procedures to place locally sourced materials to provide equal or greater strength to current ADR methodologies. will be Develop and test new systems to provide similar or greater repair speeds with smaller logistic requirement, and current equipment test and evaluation will focus heavily on testing and operation in					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support		Project (Number/Name) 652895 / Civil Engineering Readiness	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026
extreme weather conditions, along with methods for repair that will support current Agile Combat Employment (ACE) operations and strategies. FY 2026 Plans: Continue to mature and transition rapid assessment, mitigation, and repair tools and material solutions for airfield damage recovery through research, development, testing, and evaluation. Rapid assessment includes spiral development and integration of small unmanned aircraft systems (SUAS), mobile towers, and handheld platforms to utilize various sensors, to provide data for automated damage detection software solutions to significantly decrease damage assessment time and improve automated detection of unexploded ordnance (UXO). In order to meet improved sensor requirements for enhanced detection and classification of damage/debris, new platforms will be identified to meet current and future needs. Develop, test and evaluate unmanned systems for use in Airfield Damage Repair as well as base infrastructure maintenance. Repair of damage focuses on development, testing, and transition of materials and equipment sets for rapid recovery of enemy induced battle damaged runways. Develop tactics, techniques and procedures for manned and unmanned systems for Rapid Explosive Hazard Mitigation (REHM). Continue to develop and test improved blast resistance capability to fit on both new and existing heavy equipment, physical destruction of UXO through stand-off methods, and Subsurface Location, Access, and Mitigation (SLAM) of buried UXO. Continue to develop new materials with minimal dependence on shipping and logistics through use of indigenous materials, with new techniques and procedures to place locally sourced materials to provide equal or greater strength to current ADR methodologies. Continue to develop and test new systems to provide similar or greater repair speeds with smaller logistic requirement, and current equipment test and evaluation will focus heavily on testing and operation in extreme weather conditions, along with methods for repair that will support current Agile Combat Employment (ACE) operations and strategies. FY 2025 to FY 2026 Increase/Decrease Statement: Increase for development and testing of lighter equipment/materials with smaller logistics footprint and development of technologies that use indigneous materials for faster recovery of damaged airfelds.					
Title: Basing & Protection Description: Research, develop and transition technologies for airbase infrustructure. Incudes hardening and protecting airfield infrastructure from munitions attack, unexploded ordnance and aircraft, equipment and infrastructure fires. Within this effort are structural solutions, expeditionary and expedient hardening and protection solutions, explosive ordnance disposal technologies, aviation firefighting technologies, and energy and utilities technologies. The technologies developed from this effort provide improved resiliency and rapid restoration of airbase and airfield operations following an attack as well as energy and utilities technologies that provide increased efficiency and decreased logistic costs for expeditionary and in-garrison applications. FY 2025 Plans: Upgrade/modernize existing personnel protective bunkers and Air Force infrastructure hardening standards to meet current threat(s). RDT&E of new concepts for protection materials for lighter, less expensive solutions for infrastructure hardening. Test			6.146	5.675	5.665

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025			
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support	Project (Number/Name) 652895 / Civil Engineering Readiness		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026	
and evaluate technologies against penetrating munitions including cruise missile hardening and improve expedient sheltering to address advanced threats. Continue to provide technical assistance for initial fielding of Expedient Small Asset Protection (ESAP) systems. Perform testing of selective hardening systems for infrastructure. Continue testing and evaluation of unconventional countermeasures technology for transition. Continue research and development of aviation firefighting technologies for treatment and replacement of the perfluorinated aqueous film forming foams (AFFF), clean firefighting agents - Halon replacement and aviation firefighting equipment. RDT&E of EOD technologies for neutralization UXO threats for transition into service. Bench and lab scale testing of new energy and utilities technologies prior to scaling up to full scale test and evaluation. Test and evaluation of expeditionary energy storage and shelter technologies that incorporate resiliency and sustainability capabilities for USAF expeditionary assets. Conduct field demonstration of innovative expeditionary water and waste disposal systems in an operational environment prior to fielding such as in Arctic environments, in order to support current Arctic strategy needs. Support test and evaluation of commercial technologies/systems that includes: expeditionary shelters, environmental conditioning systems, hybrid renewable energy systems, energy storage, power generation and management system, water and waste stream processing systems.					
FY 2026 Plans: Continue to upgrade/modernize existing personnel protective bunkers and Air Force infrastructure hardening standards to meet current threat(s). Continue RDT&E of new concepts for protection materials for lighter, less expensive solutions for infrastructure hardening. Test and evaluate unconventional countermeasures technology for transition, including inflatable air craft shelters and other infrastructure camouflage, concealment and deception technologies. . Test and evaluate technologies against penetrating munitions including cruise missile hardening and improve expedient sheltering to address advanced threats. Provide design and technical assistance for fielding of the next generation Expedient Small Asset Protection (ESAP) systems. Perform testing of selective hardening systems for infrastructure. Continue research and development of aviation firefighting technologies for treatment and replacement of the perfluorinated aqueous film forming foams (AFFF), clean firefighting agents - Halon replacement and aviation firefighting equipment. Continue RDT&E of EOD technologies for neutralization UXO threats for transition into service. Continue bench and lab scale testing of new energy and utilities technologies prior to scaling up to full scale test and evaluation. Continue test and evaluation of expeditionary energy storage and shelter technologies that incorporate resiliency and sustainability capabilities for USAF expeditionary assets. Conduct field demonstration of innovative expeditionary water and waste disposal systems designed for use in arctic environments, in order to support current Arctic strategy needs. Support test and evaluation of commercial technologies/systems that includes: expeditionary shelters, environmental conditioning systems, hybrid renewable energy systems, energy storage, power generation and management system, water and waste stream processing systems.					
FY 2025 to FY 2026 Increase/Decrease Statement: Decrease of funding a result of completion of BEAR System for Load and Installation Management (BSLIM) efforts in FY2025.					
Accomplishments/Planned Programs Subtotals		21.364	21.581	21.697	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support	Project (Number/Name) 652895 / Civil Engineering Readiness	
		FY 2024	FY 2025
Congressional Add: Per- and Poly-Fluoroalkyl Substances (PFAS) Destruction Technology		14.451	0.000
FY 2024 Accomplishments: RDT&E effort to develop technologies to destroy Per- and Poly-Fluoroalkyl Substances.			
FY 2025 Plans: None.			
Congressional Add: Arctic Capable Shelter		5.298	0.000
FY 2024 Accomplishments: RDT&E effort to design expeditionary base systems capable of providing life support, mission command, critical asset storage and large area maintenance shelter capability in an Arctic environment. Shelters can operate in temperature as low as -20 but require a temperature of 25F to set up.			
FY 2025 Plans: None			
Congressional Add: Automated Heavy Machinery		9.634	0.000
FY 2024 Accomplishments: RDT&E effort to develop prototype robotics kits on heavy machinery for operation in places where it is unsafe for people to go. US Air Force civil engineer squadrons provide for rapid battle damage repair of airfields and other critical facilities during combat and other operations. The application and integration of robotics kits and Artificial Intelligence/Machine Learning (AI/ML) capability on front end loaders, CTLs, wheel loaders and excavators are a key component of this work.			
FY 2025 Plans: None			
Congressional Add: Arctic Campaigning		0.000	0.000
FY 2024 Accomplishments: Funding is being realigned to the correct PEC. Funds requested will support infrastructure improvement efforts at Thule Air Base, Greenland. Thule AB is the DOD's northernmost military installation and the only installation north of the Arctic Circle. The existing base infrastructure requires significant restoration and improvements to withstand the harsh environmental conditions of the region and support campaigning. Explanation: USNORTHCOM and the U.S. Army Corps of Engineers longer "flying time on-station" to deter competitors and mitigate threats to the Homeland. USAC E will conduct geotechnical and topographic surveys at Thule AB to ensure appropriate design for infrastructure.			
FY 2025 Plans: None			
Congressional Adds Subtotals		29.383	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support				Project (Number/Name) 652895 / Civil Engineering Readiness			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 04 Line Item 845100A: Contingency Operations - Engineering and EOD Equipment	173.669	167.773	171.299	-	171.299	-	-	-	-	-	-
Remarks											
Procurement funding for Expedient Small Asset Protection (ESAP) systems, Rapid Airfield Damage Assessment System (RADAS) and Recovery of Airbases Denied by Ordnance (RADBO) in PE 0208028F.											
D. Acquisition Strategy											
This Civil Engineering (CE) Readiness project develops and evaluates technologies for in-garrison, expeditionary, and contingency installations & airbases. This encompasses a wide range of solutions and COTS equipment that are fielded to support the CE mission of the USAF. The acquisition strategy utilizes AFCEC RDT&E contracts as well as AFLCMC, GSA, other DoD and US Government laboratories/engineering centers, contracts and other transaction agreements whenever practical for the specific technology development effort.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support				Project (Number/Name) 652895 / Civil Engineering Readiness					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Airbase Technologies	Various	AFCEC : Tyndall AFB, FL	-	4.287	Nov 2023	4.950	Nov 2024	4.927	Nov 2025	-		4.927	-	-	-
Airfield Damage Repair (ADR) & Airfield Pavement Technologies	Various	AFCEC : Tyndall AFB, FL	-	2.998	Nov 2023	2.925	Nov 2024	2.942	Nov 2025	-		2.942	-	-	-
EOD & Robotics Technologies	C/CPFF	Torch Technologies : Huntsville, AL	-	2.562	Nov 2023	2.675	Nov 2024	2.772	Nov 2025	-		2.772	-	-	-
RADAS Integration	C/CPFF	Torch Technologies : Huntsville, AL	-	2.611	Nov 2023	2.775	Nov 2024	2.796	Nov 2025	-		2.796	-	-	-
Airfield Protection (AP) Infrastructure Hardening	C/CPFF	Battelle : Panama City, FL	-	2.901	Nov 2023	2.825	Nov 2024	2.845	Nov 2025	-		2.845	-	-	-
Aviation Firefighting Technologies	C/CPFF	Battelle : Panama City, FL	-	1.257	Nov 2023	1.425	Nov 2024	1.410	Nov 2025	-		1.410	-	-	-
Energy & Utilities	C/CPFF	Battelle : Panama City, FL	-	1.257	Nov 2023	1.425	Nov 2024	1.410	Nov 2025	-		1.410	-	-	-
BEAR System for Load and Installation Management (BSLIM)	C/CPFF	Battelle : Panama City, FL	-	0.731	Nov 2023	-		-		-		-	-	-	-
PFAS Destruction Technology	Various	TBD : AK	-	14.451	Jan 2025	-		-		-		-	-	-	-
Arctic Capable Structure	Various	Battelle : Panama City, FL	-	5.298	Sep 2024	-		-		-		-	-	-	-
Automated Heavy Machinery	Various	AIM Intelligent Machines : Bellevue, WA	-	9.634	Nov 2024	-		-		-		-	-	-	-
Subtotal			-	47.987		19.000		19.102		-		19.102	-	-	N/A
Remarks Airfield Pavements & Technologies was rolled into Airfield Damage Repair as these are a joint effort.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support				Project (Number/Name) 652895 / Civil Engineering Readiness					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration (PMA)	Various	AFCEC : Tyndall AFB, FL	-	1.212	Nov 2023	0.931	Nov 2024	0.966	Nov 2025	-		0.966	-	-	-
Subtotal			-	1.212		0.931		0.966		-		0.966	-	-	N/A
Remarks															
PMA includes travel and supplies to support CE Readiness RDT&E activities.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
A&AS Program Support RDT&E	C/FFP	Multiple : Tyndall AFB, FL	-	1.548	Apr 2024	1.650	Apr 2025	1.629	Apr 2026	-		1.629	-	-	-
Subtotal			-	1.548		1.650		1.629		-		1.629	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	50.747		21.581		21.697		-		21.697	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>		Project (Number/Name) 652895 / <i>Civil Engineering Readiness</i>	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
CE Readiness																												
Airbase Technologies																												
ADR Robotic In-seat Appliques Phase 2																												
ADR In-situ Material Repair RDT&E																												
RADAS Development, Test & Evaluation																												
Airfield Mitigation and Recovery Robotics																												
AFFF Disposal and Mitigation Technologies																												
Directed Energy Application for UXO Neutralization																												
Civil Engineering Projects for Sustained Airbase Operations																												
Airfield Protection - Advanced Hardening RDT&E																												
AFFF Replacement Agent Test & Evaluation																												
Airfield Sustainment and Damage Recovery Technologies																												
PFAS Destruction Technology																												
Arctic Capable Shelter																												
Automated Heavy Machinery																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>	Project (Number/Name) 652895 / <i>Civil Engineering Readiness</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CE Readiness				
Airbase Technologies	1	2024	4	2027
ADR Robotic In-seat Appliques Phase 2	1	2024	2	2026
ADR In-situ Material Repair RDT&E	1	2024	2	2025
RADAS Development, Test & Evaluation	1	2024	4	2026
Airfield Mitigation and Recovery Robotics	1	2024	3	2027
AFFF Disposal and Mitigation Technologies	1	2024	4	2026
Directed Energy Application for UXO Neutralization	1	2024	4	2024
Civil Engineering Projects for Sustained Airbase Operations	1	2024	1	2026
Airfield Protection - Advanced Hardening RDT&E	1	2024	4	2027
AFFF Replacement Agent Test & Evaluation	1	2024	4	2026
Airfield Sustainment and Damage Recovery Technologies	1	2024	4	2025
PFAS Destruction Technology	1	2025	4	2027
Arctic Capable Shelter	4	2024	4	2027
Automated Heavy Machinery	1	2025	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support				Project (Number/Name) 654910 / Aeromedical Readiness			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
654910: Aeromedical Readiness	0.000	0.000	2.054	1.777	0.000	1.777	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Aeromedical Readiness provides key aeromedical devices, life-saving capabilities and quality of life technologies and equipment. This program enables the critical care of combat casualties by further developing and optimizing existing technologies for ground Expeditionary Medical Systems (EMEDS) and aeromedical evacuation systems. EMEDS and aeromedical evacuation systems provide the urgent care needed to treat deployed injured warfighters and return them to duty while in country, and to treat combat casualties that need to be safely transported to a stateside hospital for follow on treatment. The program also supports critical capabilities development in the multi-disciplinary areas for light-weight, durable, and rapidly deployable medical equipment to ensure the Air Force is poised to meet future medical readiness and operational requirements, to include but not limited to Endovascular Aortic Control (EVAC), Pathogen Detection Capability, Automated Vision Testing, Whole Blood Transport and other FDA approved medical treatment devices. This program supports projects ranging from research efforts to optimize human physiologic, modernizing the standards used to measure aircrew, crew stations, and personal protective equipment and cognitive performance for Air Combat Command, to development of patient isolation and transportation devices for Air Mobility Command that enable aeromedical evacuation of patients suffering with highly infectious diseases.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY2024 0.0M was expended for civilian pay expenses in this program element, and in FY 2025 0.0M is forecasted for civilian pay expenses in this program element."

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Aeromedical Equipment Testing/Studies/Minor Development	0.000	2.054	1.777
Description: Aeromedical supports Defense Health Program, Joint Services and MAJCOM medical modernization. The Air Force Medical Readiness Agency (AFMRA) Surgeon General Requirement Oversight Council (SGROC) Governance process manages medical capability gaps, research and development, funding prioritization and decisional boards. Aeromedical procures and qualifies commercial-off-the-shelf (COTS) or near COTS medical and aeromedical products and/or performs minor development, studies and management efforts, under Aeromedical Readiness. Also to perform anthropometric studies. Aeromedical Program efforts evaluate integrating technologies or prototype systems in a realistic operating environment, expedite technology transition from the laboratory to operational use, emphasis on proving maturity prior to integration and viable decision ready materiel solutions.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>	Project (Number/Name) 654910 / <i>Aeromedical Readiness</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Funding supports aeromedical modernization efforts, evaluating identified commercial-off-the-shelf (COTS) or near COTS medical and aeromedical products for Air Force use, identifying integration challenges and solutions, and proving technical maturity. <i>FY 2026 Plans:</i> Funding supports aeromedical modernization efforts, evaluating identified commercial-off-the-shelf (COTS) or near COTS medical and aeromedical products for Air Force use, identifying integration challenges and solutions, and proving technical maturity. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Decrease due to fewer identified requirements			
Accomplishments/Planned Programs Subtotals		0.000	2.054
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
Multi-Modal Threat Detection and Mitigation Congressional Add being executed out of BPAC 652895.			
D. Acquisition Strategy			
Whenever practical, commercial items are tested and evaluated as candidates for providing solutions to user needs. This normally involves contractor characterization, verification, and qualification testing to ensure Food and Drug Administration (FDA) approved, commercial off-the-shelf equipment is properly evaluated to identify any capability gaps that may require minor modifications for military use. However, acquisition strategies may also be carried out for traditional Engineering and Manufacturing Development (EMD). Funds may be used to address associated emerging Aeromedical Readiness requirements and for program management activities.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support				Project (Number/Name) 654910 / Aeromedical Readiness					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Aeromedical Equipment R&D (Production Representative Units, Testing, Manufacturing Maturation, Food and Drug Administration Clearance)	C/FFP	AFLCMC : Wright-Patterson AFB, OH	-	-		2.054	Mar 2025	-		-		-	-	-	-
Subtotal			-	-		2.054		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test and Evaluation	C/CPAF	Not specified. : TBD	-	-		-		1.497	Dec 2025	-		1.497	-	-	-
Subtotal			-	-		-		1.497		-		1.497	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration	C/CPFF	AFLCMC : Wright-Patterson AFB, OH	-	-		-		0.280	Mar 2026	-		0.280	-	-	-
Subtotal			-	-		-		0.280		-		0.280	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		2.054		1.777		-		1.777	-	-	N/A
Remarks															
Multi-Modal Threat Detection and Mitigation Congressional Add improperly aligned to BPAC 654910. Funding is being executed out of BPAC 652895.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 5								PE 0604617F / Agile Combat Support								654910 / Aeromedical Readiness			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Aeromedical Readiness RDTE Efforts																												
Aeromedical Equipment Testing/Studies/ Minor Development																												
Endovascular Aortic Control (EVAC)																												
Digital Engineering Investment																												
Multi-Modal Threat Detection and Mitigation																												
Multi-Modal Threat Detection and Mitigation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support	Project (Number/Name) 654910 / Aeromedical Readiness	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Aeromedical Readiness RDTE Efforts				
Aeromedical Equipment Testing/Studies/Minor Development	1	2024	4	2026
Endovascular Aortic Control (EVAC)	3	2025	3	2026
Digital Engineering Investment	4	2024	4	2026
Multi-Modal Threat Detection and Mitigation				
Multi-Modal Threat Detection and Mitigation	3	2024	4	2025

Note
Multi-Modal Threat Detection and Mitigation Congressional Add improperly aligned to BPAC 654910. Funding is being executed out of BPAC 652895.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604706F / Life Support Systems							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	37.578	24.502	20.542	0.000	20.542	-	-	-	-	-	-
65412A: Life Support Systems	0.000	37.578	24.502	20.542	0.000	20.542	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program develops aircrew flight equipment and other combat support equipment required for safe effective execution. Air Force acquisition teams lead the upgrade and fielding of new equipment and systems by assessing deficiencies in existing equipment, identifying and assessing existing products or developing new technology, and conducting required Safe-to-Fly tests, certifications, and studies. Program efforts include, but are not limited to, the following projects: directed energy protective equipment; flight helmets and visors; oxygen breathing systems for aircrew; radios and locator beacons; support equipment; nuclear flash blindness protection; night vision devices; noise reduction devices; all types of flight suits and ensembles to protect aircrew against environmental threats; anti-gravity (anti-G) suits; flame resistant, retardant and blast/ballistic protective gear; aircraft seating; impact protection equipment; flotation devices; parachutes; ejection systems; post-ejection survival systems; physiological monitoring devices and other aircrew, life support, and ground crew systems required by the warfighter.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY24 1.5M was expended for civilian pay expenses in this program element, and in FY25 2.4M is forecasted for civilian pay expenses in this program element.

The FY 2026 request was reduced by \$.509M for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604706F I Life Support Systems				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	39.301	25.502	26.387	0.000	26.387	
Current President's Budget	37.578	24.502	20.542	0.000	20.542	
Total Adjustments	-1.723	-1.000	-5.845	0.000	-5.845	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	-1.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	-0.500	0.000				
• SBIR/STTR Transfer	-1.223	0.000				
• Other Adjustments	0.000	0.000	-5.845	0.000	-5.845	
Change Summary Explanation						
FY2025 reduction of 1M for insufficient R-3						
Reduction in FY2026 for higher AF priorities						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Aircrew Performance Studies/Technology Projects, Minor Development Efforts and Aircrew Accommodation Efforts				12.620	11.933	11.352
Description: Air Force Life Cycle Management Center's Aircrew Performance Branch is the single USAF focal point for Aircrew Flight Equipment (AFE) Safe-to-Fly (STF) testing certification, addressing Safety Investigation Board (SIB) recommendations, along with studies and analysis. Aircrew Accommodation Efforts develop and sustain Organizational Clothing and Individual Equipment (OCIE) & Personal Protective Equipment (PPE) for Airmen to enhance mission performance while improving safety and survival. Anthropometric data collection ensures that these programs produce the OCIE and PPE that will allow Airmen to perform their best in the missions they are assigned. OCIE and PPE for aircrew includes, but is not limited to, the development and refinement of flight suits, bladder relief systems, helmets, ejection seats, post ejection survival system, G-suits, aircrew body armor, oxygen masks, Modular Aircrew Restraint Back and Leg Support (MARBLES), radio upgrades and feedback mechanisms. Aircrew Laser Eye Protection - Technical Insertion (ALEP-TI), Next Generation Fixed Wing Helmet (NGFWH), BA-X Low Profile Parachute (LPP) and Nuclear Flash Blindness Goggles (NFBG) are currently the active programs within Life Support Systems (LSS). In addition, funding addresses real-time capability gaps identified by the warfighter which may be satisfied by testing and qualifying commercial-off-the-shelf (COTS) products and/or performing minor development efforts totaling less than 10M per year. Previous successful efforts may evolve into enduring capabilities as other users and MAJCOMs seek to incorporate these STF						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604706F / <i>Life Support Systems</i>		
C. Accomplishments/Planned Programs (\$ in Millions) assets into their inventory. Funds may be used to address associated emerging aircrew, ground crew, and egress requirements, and for program management activities. FY 2025 Plans: Continue to perform STF testing and certification of COTS products. Address SIB recommendations. Continue the development/ test efforts of aircrew laser eye protection - technical insertion (ALEP-TI), next generation fixed wing helmet, next generation nuclear flash blindness technology. FY 2026 Plans: Continue to perform STF testing and certification of COTS products. Address SIB recommendations. Continue the development/ test efforts of aircrew laser eye protection - technical insertion (ALEP-TI), next generation fixed wing helmet, next generation nuclear flash blindness technology, and improvement of parachute/flotation devices. FY 2025 to FY 2026 Increase/Decrease Statement: Funds slightly decreased due to planned testing and certification activities		FY 2024	FY 2025	FY 2026
Title: Next Generation Ejection Seat Description: This effort includes the qualification, procurement, fielding and sustainment of an upgraded ejection seat escape system for ACES II-equipped aircraft. The new ejection seat escape system safely accommodates greater variation in aircrew minimum and maximum weights at minimum aircrew sitting height of 31 inches, including 59% of the female pilot population, and the use of Helmet Mounted Displays. It reduces the risk of injuries to the arms and legs (especially due to limb flail), neck, and spinal column throughout all ejection phases. FY 2025 Plans: Complete F-15 qualification testing and production readiness delivery order effort. FY 2026 Plans: Award F-15 Integration Contract. Award F-16 Production Readiness Delivery Order. FY 2025 to FY 2026 Increase/Decrease Statement: Funding decrease due to NGES F-15 effort moving towards production.		24.958	12.569	9.190
Accomplishments/Planned Programs Subtotals		37.578	24.502	20.542

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604706F I Life Support Systems						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 04 Line Item 842990: Items Less Than \$5 Million (Safety and Rescue Equipment)	35.703	78.663	52.018	-	52.018	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy											
The majority of efforts funded in this project employ a streamlined acquisition approach. Whenever practical, Government-Off-The-Shelf/Commercial-Off-The-Shelf (GOTS/COTS) items are tested and evaluated as candidates for solutions to user needs. This normally involves characterization, verification, and qualification testing to ensure GOTS/COTS equipment is properly certified and adapted for military purposes. However, acquisition strategies may be carried out at the project level for traditional Engineering and Manufacturing Development (EMD).											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604706F / Life Support Systems				Project (Number/Name) 65412A / Life Support Systems					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Aircrew Performance Studies/Technology Projects, Minor Development Efforts & Aircrew Accommodation Efforts	Various	Multiple Contractors : TBD	-	6.811	Jul 2024	6.699	Jan 2025	7.929	Jan 2026	-		7.929	-	-	-
Next Generation Ejection Seat (NGES)	SS/CPFF	Collins Aerospace : Colorado Springs, CO	-	21.979	Jun 2024	10.969	Dec 2024	6.012	Dec 2025	-		6.012	-	-	-
Subtotal			-	28.790		17.668		13.941		-		13.941	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority	TBD	AFLCMC : Wright-Patterson AFB, OH	-	1.500	Oct 2023	2.400	Oct 2024	2.500	Oct 2025	-		2.500	-	-	-
Subtotal			-	1.500		2.400		2.500		-		2.500	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Tests (NGES, ACES, NGFWH, etc.)	Various	Various : Various, NV	-	2.804	Nov 2024	2.136	Jan 2025	1.500	May 2026	-		1.500	-	-	-
Subtotal			-	2.804		2.136		1.500		-		1.500	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration (PMA)	TBD	AFLCMC : Wright-Patterson AFB, OH	-	4.484	Oct 2023	2.298	Oct 2024	2.601	Oct 2025	-		2.601	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604706F / Life Support Systems				Project (Number/Name) 65412A / Life Support Systems					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Subtotal			-	4.484		2.298		2.601		-		2.601	-	-	N/A
Remarks															
PMA Description: Program Management Support and Travel.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	37.578		24.502		20.542		-		20.542	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0604706F / Life Support Systems					65412A / Life Support Systems			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Life Support Systems RDTE Efforts																												
Aircrew Performance Aircrew Laser Eye Protection - Technical Insertion (ALEP-TI)																												
Aircrew Performance/ Equipment																												
Next Generation Fixed Wing Helmet																												
Next Generation Ejection Seat																												
Next Gen Nuclear Flash Blindness Protection																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604706F / Life Support Systems	Project (Number/Name) 65412A / Life Support Systems	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Life Support Systems RDTE Efforts</i>				
Aircrew Performance Aircrew Laser Eye Protection - Technical Insertion (ALEP-TI)	1	2024	3	2028
Aircrew Performance/ Equipment	1	2024	4	2030
Next Generation Fixed Wing Helmet	1	2024	4	2026
Next Generation Ejection Seat	1	2024	4	2029
Next Gen Nuclear Flash Blindness Protection	4	2024	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0604735F <i>I Combat Training Ranges</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	56.609	160.783	139.499	0.000	139.499	-	-	-	-	-	-
652286: <i>Combat Training Range Equipment</i>	0.000	56.609	160.783	139.499	0.000	139.499	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

COMBAT TRAINING RANGES (CTR): Portfolio provides electronic warfare equipment and support to Air Force combat training ranges for training, testing, and evaluation of aircrews. Development and integration efforts include: aircraft pods, radar emitters, advanced radar emitters, communication jammers, command and control and debrief capability, and instrumentation equipment. All development efforts support USAF aircraft for Joint, Coalition, and Live Virtual Constructive (LVC) training events.

This program leverages digital acquisition tenets of open, agile, and digital. This program will develop Common component in collaboration with other weapon systems, to reduce redundant costs between systems with similar subsystems requirements. It will also invest in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

ADVANCED RADAR THREAT SYSTEM (ARTS): ADVANCED RADAR THREAT SYSTEM (ARTS): The ARTS family of systems program is currently focused on the ARTS-V1 and ARTS-V3 variants. ARTS-V1 is currently in the Production Phase, having achieved IOC with its Production Representative Article (PRA) at Nellis Test and Training Range, and is preparing to enter into full sustainment in FY28 following delivery of the 2 production units. ARTS-V3 is a software defined digital radar currently in the Engineering and Manufacturing Development Phase. ARTS-V3 is developing a state-of-the-art digital active electronically scanned radar system that will be used to simulate the latest foreign Surface-to-Air Missile (SAM) radar and Electronic Warfare (EW) threat systems. ARTS-V3 systems are a critical part of the Operational Training and Test Infrastructure (OTTI) plan for developing future Tactics, Techniques and Procedures (TTPs) for potential conflicts. These systems are also a critical component of the DoD's testing capabilities for validation of advanced airpower capabilities against threat-representative radar systems. Efforts include, but are not limited to: anechoic chamber research, digital twin, and open-air testing technology development, software development, and collaborative test and development infrastructures. ARTS V3 will validate open-air characteristics of advanced threat systems to develop realistic physics-based threat models for virtual high-end training environments including the Joint Synthetic Environment.

MODERNIZATION RANGE THREATS SYSTEMS (RTS): The RTS program supports upgrading and modifying legacy range threat systems to provide combat training relevancy and enhanced systems capabilities. Legacy systems include Multiple Threat Emitter System (MUTES), Miniature Multiple Threat Emitter System (Mini-MUTES), Modular Threat Emitter (MTE) system, Tactical Radar Threat Generator (TRTG) system, Band Simulator, Unmanned Modular Threat Emitter (UMTE) system, and Joint Threat Emitter (JTE) system.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604735F I Combat Training Ranges				
LIVE MISSION OPERATIONS CAPABILITY (LMOC): LMOC is an effort to modernize range control centers with common hardware and software that can support live-synthetic training missions. LMOC will provide a node-based enterprise that integrates all range system capabilities, including pre/post mission coordination, in a multi-level secure environment to enable blended live-synthetic training for 4th/5th generation aircraft and aircrew.						
P6 Combat Training Systems (P6CTS) will resolve existing critical training capability gaps and will enable comprehensive, realistic air combat training. Key upgrades include a trusted operating system, Multiple Level Security (MLS) architecture, Type 1 encryption of over-air data, and increased processing capability. P6CTS investment will support a robust Air-to-Air and Air-to-Ground combat training environment and provide a growth path to Blended Training capability. The P6CTS is comprised of airborne participant subsystem, ground system/subsystem and ancillary range communication infrastructure. P6CTS Initial Operating Capability (IOC) on F-15 at Nevada Test and Training Range (NTTR) is targeted for FY27.						
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY24 3.8M was expended for civilian pay expenses in this program element, and in FY25 4.775M is forecasted for civilian pay expenses in this program element. The programs in the civilian pay requirement are ARTS-V3, P6CTS and LMOC.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		152.569	224.783	51.625	0.000	51.625
Current President's Budget		56.609	160.783	139.499	0.000	139.499
Total Adjustments		-95.960	-64.000	87.874	0.000	87.874
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-68.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		6.000	4.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-101.960	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	87.874	0.000	87.874
Change Summary Explanation						
FY26 ARTS-V3 request includes rephasing due to delays from a contract protest.						
FY25 congressional mark of 68M for ARTS-V3.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604735F I Combat Training Ranges				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Advanced Radar Threat System-Variant 3 (ARTS-V3) Description: ARTS-V3 program will design, develop, build, and test advanced Surface-to-Air Missile (SAM) radar threat systems. ARTS-V3 will replicate strategic/tactical threats at the fidelity necessary for 5th generation multi-domain platform engagements. The ARTS-V3 requirement is to develop a modular radar threat system that has a growth path to replicate multiple advanced SAM threats and support Live Virtual Constructive (LVC) training. Efforts include but are not limited to: development of Production Representative Articles (PRA), development of command and control software, digital engineering, and efforts focused on integrating ARTS-V3 into test and training ranges plus LVC architectures. FY 2025 Plans: First full year of ARTS-V3 Production Representative Articles (PRA) development in X and C frequency bands. FY25 program accomplishments include successful completion of the Critical Design Review, completion of the command and control software preliminary design review, initial fabrication of radar antenna hardware, and initial development of software-defined radar threat models. The program experienced a 68M reduction to the FY25 budget, which has delayed planned hardware purchases and development efforts to FY26. FY 2026 Base Plans: The focus of FY26 is restoring contract activity that was deferred from FY25 due to the unplanned 68M reduction to FY25 funds. Development tasks on the radar development contract will ramp back up to regain momentum and mitigate further schedule delays. Activities will include remaining hardware purchases deferred from FY25, initial fabrication of radar assemblies and sub-assemblies, component-level and sub-system level testing, continued development of the command & control software, and integration activities to pair the command & control software, software-defined threat software, with hardware-in-the-loop radar hardware/firmware within a cloud-based integration environment to refine product designs, resolve interfaces, and reduce integration risk during open-air full system testing in FY27. FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: FY26 funding level similar to FY25 as program enters year 2 of the Engineering and Manufacturing Development phase.		27.898	116.544	112.541	0.000	112.541
Title: Advanced Radar Threat System Tech Development		0.000	8.077	0.000	-	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604735F I Combat Training Ranges				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Description: The ARTS Tech Development for follow on variants will design, develop, and test threat systems based on replicating advanced foreign fielded Surface-to-Air Missile (SAM) radar and Electronic Warfare (EW) threat systems. The ARTS variants will be used at Department of Defense (DoD) test and training ranges for 4th generation, 5th generation, and 5th generation plus aircrew training and tactics development. ARTS variants are also developed for LVC integration and full simulation training. Efforts include but are not limited to: research, studies, technology development, engineering, and manufacturing advanced radar emitters. FY 2025 Plans: In FY25, the program office is initiating a rapid prototyping contract to build test articles for an affordable threat emitter design concept that has the potential to fulfill a set of current shortfalls in live-emitter training needs for the F-35 aircraft and other aircraft platforms at regional training ranges. Success of this effort will inform divestment decisions for aging legacy range emitters that are well beyond service life and facing significant sustainment obsolescence challenges and rising repair costs. Delays to funding distribution due to the year-long continuing resolution have delayed award of the rapid prototyping contract to the end of FY25. FY 2026 Base Plans: No current funding for ARTS Tech development in FY26 FY 2025 to FY 2026 Increase/Decrease Statement: Reduction due to no Technical Development funding planned for FY26.						
Title: Live Mission Operations Capability (LMOC) Description: LMOC is an effort to modernize training range control centers with common hardware and software that can support live-synthetic training missions. LMOC provides a node-based software enterprise that integrates all range system capabilities, including pre/post mission coordination, in a multi-level secure environment to enable blended live-synthetic training for 4th/5th generation aircraft and aircrew. FY 2025 Plans: Development and testing of additional capabilities for the LMOC Platform such as Mission Planning, Simulation and Display (SIMDIS) software, Joint Anti-Air Modeling (JAAM) and Pre/Post Mission applications. Continue development of multi-level security to provide the capability to guise, filter or block data as required. FY 2026 Base Plans: Continue development to transition the LMOC Platform to a higher classification level capability that meets training and test requirements of USAF 5th and 6th Gen combat systems and communities. This includes the		6.970	14.176	9.006	-	9.006

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604735F I Combat Training Ranges				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
use of fully automated proficiency based training augmentations for debrief and data analysis at each combat system's wartime classification level which will dramatically increase the speed that combat units can gain combat proficiency and test units can adjudicate system capabilities prior to release to the CAF.						
FY 2025 to FY 2026 Increase/Decrease Statement: Decrease based on ramping down of RDT&E efforts and the move to procurement						
Title: P6 Combat Training System (P6CTS) Description: P6CTS will replace the existing P5CTS and the Misawa/Osan/Kunsan/Kadena Instrumentation Training System (MOKKITS). P6CTS will resolve existing critical training capability gaps and will enable comprehensive, realistic air combat training. Key upgrades include a trusted operating system, Multiple Level Security (MLS) architecture, Type 1 encryption of over-air data, and increased processing capability. P6CTS investment will support a robust Air-to-Air and Air-to-Ground combat training environment and provide a growth path to Blended Training capability. FY 2025 Plans: Development, test, and continued aircraft integration based on ACC prioritization. Rehost P6CTS ground subsystem on Live Mission Operation Capability (LMOC) platform infrastructure. Executed FY25 funds for an expansion of the DMEA contract to include F-15 software integration, unique Computer Product Identification Numbers (CPIN), Acceptance Test (AT) and Site Acceptance Test (SAT) plans and procedures. FY 2026 Base Plans: Continued funding of Non-Recurring Engineering (NRE) to complete F-16/F-15 and range integration at Nevada Test and Training Range (NTTR) in support of P6 Initial Operating Capability (IOC) and continued development of Air Battlespace Shaping (OABS). FY26 deliverables include the F-15 Affinity Profile Image and ACE software application ECP package for inclusion in the TCTS II/P6CTS software baseline. The program anticipates conditional IOC at NTTR by 2Q FY27. FY 2025 to FY 2026 Increase/Decrease Statement: No Significant Decrease (\$0.005) - Current Plan of Product Development and Enhancement is on course with a Get Well Date (GWD) of June 2026.		21.741	21.986	17.952	-	17.952
Accomplishments/Planned Programs Subtotals		56.609	160.783	139.499	0.000	139.499

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)				R-1 Program Element (Number/Name) PE 0604735F I Combat Training Ranges							
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 03 Line Item 834190: Combat Training Ranges	103.977	290.791	352.838	-	352.838	-	-	-	-	-	-
• OPAF 05 Line Item 861900: Spares and Repair Parts	0.744	0.760	0.776	-	0.776	-	-	-	-	-	-
• APAF 07 Line Item 000075: Other Production Charges	57.086	81.864	69.462	-	69.462	-	-	-	-	-	-
Remarks											
FY24 6.0M is for JPARC. This program is not captured in Section C.											
FY24 0.003M is for Encryption Combat Training System. This Program is not captured in Section C.											
FY25 0.210M is for Encryption Combat Training System. This program is not captured in Section C.											
FY26 Base 0.215M is for Encryption Combat Training System. This program is not captured in Section C.											
E. Acquisition Strategy											
The acquisition strategy varies by effort. Overall strategy is competition focused, with the use of but not limited to other transaction authority, cost plus and fixed price contracts.											
Live Mission Operations Capability (LMOC) - Software Pathway program that employs an Army sponsored Indefinite Deliver Indefinite Quantity (IDIQ) Cost Plus Fixed Fee commercial contract vehicle and various Government organizational partners to employ industry best practices and agile software methodology to deliver Minimum Viable Products (MVP) in an iterative process in order to enhanced Air Force live training range infrastructure.											
P6CTS overall acquisition strategy is to leverage existing/future contracts to accomplish P6CTS integration onto Air Force platforms and Air Force Ranges, system optimization/perfection, and Diminishing Manufacturing Sources and Material Shortages (DMSMS) management activities.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604735F / Combat Training Ranges				Project (Number/Name) 652286 / Combat Training Range Equipment					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Radar Threat System-Variant 3 (ARTS-V3) Development	C/CPFF	Various : Various	-	24.907	Apr 2024	112.810	Nov 2024	107.891	Jun 2026	-		107.891	-	-	-
Advanced Radar Threat System Tech Development	Various	Various : Various	-	-		8.077	Nov 2024	-		-		-	-	-	-
P6 Combat Training System	Various	Various : Various	-	17.994	Sep 2024	20.967	May 2025	14.177	Mar 2026	-		14.177	-	-	-
Live Mission Operation Capability (LMOC)	Various	Georgia Tech Research : Various	-	2.988	Mar 2024	10.160	Dec 2024	6.240	Dec 2025	-		6.240	-	-	-
Subtotal			-	45.889		152.014		128.308		-		128.308	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Radar Threat Systems-Variant 3 (Direct Cite Authority Civ Pay)	Various	Various : Various	-	1.821	Oct 2023	2.072	Oct 2024	1.700	Oct 2025	-		1.700	-	-	-
LMOC (Direct Cite Authority Civ Pay)	Various	Various : Various	-	1.318	Oct 2023	1.712	Oct 2024	1.866	Oct 2025	-		1.866	-	-	-
P6CTS (Direct Cite Authority Civ Pay)	Various	Various : Various	-	0.661	Oct 2023	1.019	Oct 2024	2.000	Oct 2025	-		2.000	-	-	-
Subtotal			-	3.800		4.803		5.566		-		5.566	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Radar Threat Systems-Variant 3	C/Various	Not specified. : TBD	-	0.019	Mar 2024	0.240	Feb 2025	0.350	Oct 2025	-		0.350	-	-	-
P6 Combat Training System	C/Various	Not specified. : TBD	-	2.168	Mar 2024	-		1.775	Nov 2025	-		1.775	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604735F / Combat Training Ranges				Project (Number/Name) 652286 / Combat Training Range Equipment					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
LMOC	PO	Not specified. : TBD	-	1.498	Dec 2023	2.274	Feb 2025	0.900	Dec 2025	-		0.900	-	-	-
Subtotal			-	3.685		2.514		3.025		-		3.025	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Radar Threat Systems-Variant 3 (Program Support Cost - Contractor Services)	Various	Various : Hill AFB, UT	-	1.066	Feb 2024	1.372	Jul 2025	2.400	Oct 2025	-		2.400	-	-	-
Advanced Radar Threat Systems-Variant 3 (Program Support Cost - Other Govt. Costs)	Various	Various : Hill AFB, UT	-	0.085	Apr 2024	0.050	Oct 2024	0.200		-		0.200	-	-	-
LMOC (Program Support Cost - Contractor Services)	Various	Various : Hill AFB, UT	-	1.089	Feb 2024	0.000	Jul 2025	0.000	Mar 2026	-		0.000	-	-	-
LMOC (Program Support Cost - Other Govt. Costs)	Various	Various : Hill AFB, UT	-	0.077	May 2024	0.030	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
P6 Combat Training System (Program Support Cost - Contractor Support costs)	Various	Various : Hill AFB, UT	-	0.918	Feb 2024	-		-		-		-	-	-	-
Subtotal			-	3.235		1.452		2.600		-		2.600	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	56.609		160.783		139.499		-		139.499	-	-	N/A
Remarks ARTS-V2 program terminated for the convenience of the government.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force							Date: June 2025			
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0604735F / Combat Training Ranges		Project (Number/Name) 652286 / Combat Training Range Equipment				
	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Combat Training Ranges Support Costs. Program Support Costs are defined as direct, unique program costs (other than payroll costs for government personnel) required for the operation of a program office in its management and oversight role. The financing of program support costs must be consistent with: a) the type of work being performed; b) where the program resides within the acquisition phase (lifecycle); and c) existing regulatory and statutory doctrine, including coverage governing the purpose of an appropriation. (T-1).										
Combat Training Ranges MAJCOM FM, FOA or DRU Offices will budget program support costs on an annual basis and reflect in the FY the requirement is projected to execute; requirements will be budgeted and executed in the weapon system or PEC within the procurement, RDT&E, or O&M appropriations. (T-1). For multi-year appropriations, execution of program support costs may occur in any year of funds currently available.										

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 5

R-1 Program Element (Number/Name)

PE 0604735F / Combat Training Ranges

Project (Number/Name)

652286 / Combat Training Range Equipment

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Combat Training Range Equipment																												
P6CTS - Integration on USAF Aircraft																												
-- P6CTS - F-15 Aircraft Test & Integration																												
Advanced Radar Threat System-Variant 3 (ARTS-V3) System Spec Definition																												
-- ARTS-V3 Intelligence Assessment																												
-- ARTS-V3 Intelligence Model Development																												
Advance Radar Threat System (ARTS-V3) Development																												
-- Digital Modeling and Subscale Prototype Efforts																												
-- ARTS-V3 Request For Proposal (RFP) for Production Representative Article (PRA)																												
-- ARTS-V3 PRA Contract Award																												
-- ARTS-V3 PRA Development																												
--ARTS-V3 DT-E and OT-E																												
--ARTS-V3 Intelligence Model Integration																												
--ARTS-V3 Cloud Integration Space and DECSECOPS Pipeline																												
--Variable Aperture Digital Radar Command and Control (VADR C2) Application Development																												
Modernization Systems																												
-- Mini-MUTES Upgrade																												
Live Mission Operations Capability (LMOC)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604735F / <i>Combat Training Ranges</i>	Project (Number/Name) 652286 / <i>Combat Training Range Equipment</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Combat Training Range Equipment</i>				
P6CTS - Integration on USAF Aircraft	4	2024	2	2028
-- P6CTS - F-15 Aircraft Test & Integration	4	2024	3	2027
Advanced Radar Threat System-Variant 3 (ARTS-V3) System Spec Definition	1	2024	3	2024
-- ARTS-V3 Intelligence Assessment	1	2024	4	2026
-- ARTS-V3 Intelligence Model Development	1	2024	3	2026
Advance Radar Threat System (ARTS-V3) Development	1	2024	4	2026
-- Digital Modeling and Subscale Prototype Efforts	1	2024	3	2026
-- ARTS-V3 Request For Proposal (RFP) for Production Representative Article (PRA)	1	2024	3	2026
-- ARTS-V3 PRA Contract Award	3	2024	3	2026
-- ARTS-V3 PRA Development	3	2024	3	2027
--ARTS-V3 DT-E and OT-E	1	2025	4	2027
--ARTS-V3 Intelligence Model Integration	3	2024	4	2027
--ARTS-V3 Cloud Integration Space and DECSECOPS Pipeline	1	2024	4	2026
--Variable Aperture Digital Radar Command and Control (VADR C2) Application Development	1	2024	1	2026
Modernization Systems	1	2024	4	2024
-- Mini-MUTES Upgrade	1	2024	4	2026
Live Mission Operations Capability (LMOC)	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force											Date: June 2025	
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	3,774.324	856.942	593.926	606.955	0.000	606.955	-	-	-	-	-	-
657011: <i>LONG RANGE STAND-OFF</i>	3,774.324	856.942	593.926	606.955	0.000	606.955	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 489												
<u>A. Mission Description and Budget Item Justification</u> The Long Range Stand-Off (LRSO) Cruise Missile is a long-range survivable stand-off weapon capable of delivering lethal nuclear effects on strategic targets. LRSO will replace the currently fielded Air Launched Cruise Missile (ALCM) and will be integrated on both legacy and future bomber aircraft. The LRSO weapon system will be capable of penetrating and surviving advanced Integrated Air Defense Systems (IADS) from significant stand-off range to prosecute strategic targets in support of the Air Force's global attack capability and strategic deterrence core function. Funds may be used to address emerging or short-notice Diminishing Manufacturing Sources and Material Shortage (DMSMS) and supply chain issues. This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY24 0.00M was expended for civilian pay expenses in this program element, and in FY25 0.00M is forecasted for civilian pay expenses in this program element. The program is conducting Engineering and Manufacturing Development (EMD) tasks to validate requirements to support Development and Operational Testing, and Production Readiness. This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force / BA 5: System Development & Demonstration (SDD)		PE 0604932F / Long Range Standoff Weapon				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	911.406	623.491	601.584	0.000	601.584	
Current President's Budget	856.942	593.926	606.955	0.000	606.955	
Total Adjustments	-54.464	-29.565	5.371	0.000	5.371	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	-8.773	-29.565				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	-20.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	-25.691	0.000				
• Other Adjustments	0.000	0.000	5.371	0.000	5.371	
Change Summary Explanation						
FY 2024 adjustments account for Air Force requested transfer of -20 million from LRSO 3600 to IMSC 3400 FSRM, -8.773 million for Weapons Development carryover, and -25.691 million SBIR						
FY 2025 adjustment: -29.565 million for Weapons Development carryover						
FY 2026 adjustments: 5.371 million overall increase: The FY 2026 request was reduced by -8.615 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, Implementing the President's Department of Government Efficiency Cost Efficiency Initiative; as well as an increase of \$16 million for ASIC Redesign						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Long Range Stand-Off (LRSO) Weapon Development				650.777	329.204	392.055
Description: Long Range Stand-off weapon development includes the Cruise Missile, payload and aircraft integration, logistics support systems, mission planning, and component and subsystem test and evaluation.						
FY 2025 Plans: The program will continue to design, develop, integrate and test the LRSO weapon system through the Engineering and Manufacturing Development (EMD) contract. During FY25, The program plans to continue Development Test and Evaluation program execution on B-52. Related FY25 Activities include, but are not limited to, the following:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- continue reliability growth, manufacturability, and maintainability maturation activities in preparation for formal Development Test and Evaluation activities. - continue systems engineering activities focusing on design for reliability and design for manufacturing. - continue test activities, such as, but not limited to, continued envelope testing and weapon system flight tests. - continue planning for Production Readiness Reviews prior to the build of the Initial Operational Test & Evaluation (IOT&E) units. - continue qualification and nuclear hardness testing to verify the system operates in intended environments. - continue planning and development of the logistics support systems. - develop and build associated carriage and launcher equipment, trainers, test equipment and support equipment. - continue to plan, develop, and mature support systems to include Common Support Equipment/Peculiar Support Equipment and transportation equipment. - continue planning for the use of Model Based System Engineering tools during Operations and Sustainment phase in order to transform supply chain management. - continue to mature the weapon system by conducting trade studies, system engineering, test activities, and system modeling and simulation. - continue to further develop analytical, information technology, and data management capabilities. - continue to implement information systems and information technology design to support EMD execution. - continue to expand and mature the analytical, information technology, test, and data management capabilities to ensure access to weapon system design information is properly controlled and securely transmitted between the government and contractors. - continue to modify, modernize, and expand the analytic environment and labs to support EMD activities to enable full execution of the program's capability to own the technical baseline throughout the program life cycle. This involves establishing a digital engineering system including a supporting environment/infrastructure to perform digital activities, collaborate with and communicate across stakeholders. - continue to plan and execute critical software risk reduction activities. - continue to plan and execute payload and aircraft integration efforts. - continue to, through best program practices, ensure the following are met: requirements flow down, requirement allocation to hardware and software, and the requirements compliance matrix. FY 2026 Plans: The program will continue to design, develop, integrate and test the LRSO weapon system through the EMD contract. During FY26, the program plans to continue Development Test and Evaluation program execution on B-52. Related FY26 Activities include, but are not limited to, the following: - continue reliability growth, manufacturability, and maintainability maturation actions for formal Development Test and Evaluation activities. - continue systems engineering activities focusing on design for reliability and design for manufacturing.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- continue test activities, such as, but not limited to, continued envelope testing and weapon system flight tests. - continue planning for Production Readiness Reviews prior to the build of the IOT&E units. - continue qualification and nuclear hardness testing to verify the system operates in intended environments. - continue planning and development of the logistics support systems. - develop and build associated carriage and launcher equipment, trainers, test equipment and support equipment. - continue to plan, develop, and mature support systems to include Common Support Equipment/Peculiar Support Equipment and transportation equipment. - continue planning for the use of Model Based System Engineering tools during Operations and Sustainment phase in order to transform supply chain management. - continue to mature the weapon system by conducting trade studies, system engineering, test activities, and system modeling and simulation. - continue to further develop analytical, information technology, and data management capabilities. - continue to implement information systems and information technology design to support EMD execution. - continue to expand and mature the analytical, information technology, test, and data management capabilities to ensure access to weapon system design information is properly controlled and securely transmitted between the Government and contractors. - continue to modify, modernize, and expand the analytic environment and labs to support EMD activities to enable full execution of the program's capability to own the technical baseline throughout the program life cycle. This involves establishing a digital engineering system including a supporting environment/infrastructure to perform digital activities, collaborate with and communicate across stakeholders. - continue to plan and execute critical software risk reduction activities. - continue to plan and execute payload and aircraft integration efforts. - continue to, through best program practices, ensure the following are met; requirements flow down, requirement allocation to hardware and software, and the requirements compliance matrix.				
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to support activities leading up to Aircraft Monitor & Control (AMAC).				
Title: All-Up-Round Description: All-Up-Round activities include payload integration and platform integration. Further, these efforts include activities and assets related to weapon design compatibility and qualification, and other nuclear certification activities with both threshold and objective aircraft. FY 2025 Plans: During FY25, The program plans to continue Development Test and Evaluation program execution on B-52. Related FY25 Activities include, but are not limited to, the following:		150.900	175.224	107.611

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>		
C. Accomplishments/Planned Programs (\$ in Millions) - continue through program practices to ensure the following are met: requirements flow down, requirement allocation to hardware and software, requirements compliance matrix, system performance, reliability, maintainability, product assurance, testability, producibility and supportability. - continue facility and security infrastructure upgrades to enable secure connectivity and communication between Department of Defense (DoD), Department of Energy (DOE), and industry. - continue efforts to conduct parallel development, design, and test activities with the DOE to ensure the LRSO adequately integrates the DOE designed warhead into the system. - conduct safety studies and nuclear certification activities. - continue to perform aircraft integration efforts including activities associated with integration on threshold aircraft and aircraft mission planning system upgrades to accommodate the new weapon. - conduct joint DoD and DOE ground and flight activities to verify the missile to warhead interface and demonstrate the system meets performance specifications. - continue to collaborate with the National Nuclear Security Administration (NNSA) to ensure seamless integration of DOE warhead assets into the cruise missile. - continue to execute and improve the unified certification strategy which meets nuclear surety, cyber security, and nuclear safety requirements. - continue other activities necessary for All-Up-Round integration. These efforts include: developing mission planning upgrade needs, Operational Flight Program (OFP) development and integration to deliver the OFP test tapes, planning activities necessary to integrate LRSO with aircraft, and ensuring the logical, electrical, and physical interfaces of the LRSO as defined in the Interface Control Document (ICD). FY 2026 Plans: During FY26, the program plans to continue Development Test and Evaluation program execution on B-52. Related FY26 Activities include, but are not limited to, the following: - continue through program practices to ensure the following are met; requirements flow down, requirement allocation to hardware and software, requirements compliance matrix, system performance, reliability, maintainability, product assurance, testability, producibility and supportability. - continue facility and security infrastructure upgrades to enable secure connectivity and communication between DoD, DOE, and industry. - continue efforts to conduct parallel development, design, and test activities with the DOE to ensure the LRSO adequately integrates the DOE designed warhead into the system. - conduct safety studies and nuclear certification activities. - continue to perform aircraft integration efforts including activities associated with integration on threshold aircraft and aircraft mission planning system upgrades to accommodate the new weapon.		FY 2024	FY 2025	FY 2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
- continue to conduct joint DoD and DOE ground and flight activities to verify the missile to warhead interface and demonstrate the system meets performance specifications. - continue to collaborate with the NNSA to ensure seamless integration of DOE warhead assets into the cruise missile. - continue to execute and improve the unified certification strategy which meets nuclear surety, cyber security, and nuclear safety requirements. - continue other activities necessary for All-Up-Round integration. These efforts include developing mission planning upgrade needs, OFP development and integration to deliver the OFP test tapes, planning activities necessary to integrate LRSO with aircraft, and ensuring the logical, electrical, and physical interfaces of the LRSO as defined in the ICD. FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to B-52 integration activities ramping down.				
Title: Test Support Description: Conduct Test Support activities to support weapon development FY 2025 Plans: The Government formally arranges and funds the use of Government flight test support for ground and flight test activities. During FY25, the program plans to continue Development Test and Evaluation program execution on B-52. Related FY25 Activities include, but are not limited to, the following: - Ground Test Phasing: AEDC Engine Cell, Static Eject, E3 HERO and Lightning Risk Reduction/Lightning, begin Induced Testing, Carriage Equipment Qualification, McKinley Climatic Lab Upgrades and continue to perform design validation, verification, test, nuclear certification activities (to include design and operational certification) and system qualification activities. - continue test planning and execution activities to support the LRSO weapon development, All-Up-Round technical integration, warhead integration and aircraft integration. - continue coordination with external test agencies in preparation for operational and post-production flight testing. FY 2026 Plans: The Government formally arranges and funds the use of Government flight test support for ground and flight test activities. During FY26, the program plans to continue Development Test and Evaluation program execution on B-52. Related FY26 Activities include, but are not limited to, the following: - Ground Test Phasing: Majority of E3, Natural Environments, and Induced taking place and continue to perform design validation, verification, test, nuclear certification activities (to include design and operational certification) and system qualification activities. - continue test planning and execution activities to support the LRSO weapon development, All-Up-Round technical integration, warhead integration and aircraft integration, and begin the integrated Test/Reliability Assessment Program.		55.265	89.498	107.289

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604932F I Long Range Standoff Weapon							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
- continue coordination with external test agencies in preparation for operational and post-production flight testing.												
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase for testing in FY 2026												
Accomplishments/Planned Programs Subtotals										856.942	593.926	606.955
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• MPAF 02 MLRSO1: Long Range Stand-Off Weapon	66.816	210.335	442.709	-	442.709	-	-	-	-	-	-	
Remarks												
E. Acquisition Strategy												
The acquisition strategy focuses on the development of the All-Up-Round Weapon System, integration with the nuclear warhead, executing aircraft integration activities, and conducting test and evaluation with a continued robust reliability and manufacturing approach. The program obtained a successful Milestone (MS) A decision in July 2016 and subsequently released a Request for Proposals. The program competitively selected two prime contractors in August 2017 to execute the Technology Maturation and Risk Reduction (TMRR) phase. The selected prime contractors executed the Cost-Plus-Fixed-Fee (CPFF) contracts during TMRR with activities focused on developing and maturing subsystem and system designs. In FY20, LRSO pivoted to a sole source TMRR contractor, enabling Development RFP (dRFP) release and MS B. MS B was approved via an Acquisition Decision Memorandum in June 2021 and a contract for Engineering and Manufacturing Development was awarded in July 2021.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force													Date: June 2025		
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon				Project (Number/Name) 657011 / LONG RANGE STAND-OFF					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Long Range Standoff Weapon Development	SS/CPFF	Various : TBD	2,991.600	616.870	Oct 2023	283.638	Oct 2024	355.151		-		355.151	-	-	-
Subtotal			2,991.600	616.870		283.638		355.151		-		355.151	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Aircraft Integration Planning	Various	Various : TBD	175.437	60.848	Oct 2023	5.875	Oct 2024	2.432	Oct 2025	-		2.432	-	-	-
All-Up-Round Activities	Various	Various : TBD	145.704	90.051	Oct 2023	169.349	Oct 2024	105.178	Oct 2025	-		105.178	-	-	-
Subtotal			321.141	150.899		175.224		107.610		-		107.610	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test Support	Various	Various : TBD	232.245	55.266	Jan 2024	89.498	Jan 2025	107.289	Jan 2026	-		107.289	-	-	-
Subtotal			232.245	55.266		89.498		107.289		-		107.289	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration	Various	Various : TBD	229.338	33.907	Oct 2023	45.566	Oct 2024	36.905	Oct 2025	-		36.905	-	-	-
Subtotal			229.338	33.907		45.566		36.905		-		36.905	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025				
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon				Project (Number/Name) 657011 / LONG RANGE STAND-OFF						
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			3,774.324	856.942		593.926		606.955		-		606.955	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025																			
Appropriation/Budget Activity 3600 / 5										R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon										Project (Number/Name) 657011 / LONG RANGE STAND-OFF									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Long Range StandOff Weapon																												
Engineering and Manufacturing Development Phase																												
Critical Design Review																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon	Project (Number/Name) 657011 / LONG RANGE STAND-OFF	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Long Range StandOff Weapon				
Engineering and Manufacturing Development Phase	1	2024	2	2027
Critical Design Review	1	2024	1	2024

Note
Engineering and Manufacturing Development Phase contract awarded July 2021.
Critical Design Review (CDR) was completed in 2Q FY 2023.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604933F I ICBM Fuze Modernization							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	1,346.043	40.447	0.000	3.252	0.000	3.252	-	-	-	-	-	-
655082: ICBM FUZE SUPPORT	1,346.043	40.447	0.000	3.252	0.000	3.252	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 0498												
A. Mission Description and Budget Item Justification												
The Intercontinental Ballistic Missile (ICBM) Fuze Modernization Program has designed and currently producing a functionally equivalent replacement for the current Mk21 fuze that will provide a 20-year threshold, 30-year objective design life. Currently available Mk21/W87-0 fuze quantities do not meet United States Strategic Command's (USSTRATCOM) requirements and the current fuze is three times beyond its original ten year design life. The program will provide needed Minuteman III (MMIII) weapon system modifications, system testing, support/test equipment, data and training required to accommodate, field, and support the new Mk21 replacement fuze along with the W87-0 warhead as defined in the Air Force Global Strike Command's (AFGSC) Requirements Traceability Memo dated 2 December 2013. In addition, the Joint Requirements Oversight Council (JROC) signed the program's JROC Memorandum validating the operational requirement for the program on 6 December 2016. A replacement Mk21/W87-0 fuze is urgently required to meet warfighter requirements and to ensure operational capability. The Mk21 reentry vehicle and fuze is designed to be deployed on the current MMIII and LGM-35A Sentinel weapon systems.												
The US Air Force (USAF) developed the modernized Mk21 fuze using the Department of Energy National Nuclear Security Administration (DOE/NNSA) complex and a weapons system integration contractor. The DOE/NNSA complex consists of Sandia National Labs-California (SNL-CA), Sandia National Labs-New Mexico (SNL-NM) and Kansas City National Security Campus (KCNSC). The ICBM Fuze Modernization program leveraged technologies, parts, components, and development/production capabilities resulting from extensive fuze work performed by the US Navy (USN) and DOE/NNSA on the Mk5/W88 Alt 370 Fuze program. The Radar Module is the only common Major Component with Mk5/W88 Alt 370. The Pathlength Module, Thermal Battery Assembly, Missile Interface Controller Module, Launch Safety Device, Terminal Protection Device, and the Firing Set Interface Module share piece parts with the Mk5/W88 Alt 370 Firing Set, but are specific to the Mk21 Fuze.												
The ICBM Fuze Modernization Program replacement fuze is designed to integrate into the MMIII and the LGM-35A Sentinel weapon systems, to include support/ test equipment, data, flight test hardware, and training materials. The program conducted required system testing (including ground and flight tests). The program is coordinating Mk21 fuze replacement development efforts with the DOE/NNSA to synchronize USAF arming and fuze development activities with DOE/NNSA warhead requirements. When prudent, the program will conduct trade studies and initiate conceptual designs to address operational system issues and meet future requirements.												
The Fiscal Year 2026 budget request continues efforts to develop digital models and integrating the Fuze Mod into the MMIII and LGM-35A Sentinel weapon systems.												
As a cooperative USAF, USN, and DOE/NNSA acquisition, the USAF is executing the program using Department of Defense (DoD) Manual 5030.55 Joint Nuclear Weapons Life Cycle Activities (Phase 6.x process) while using the DOD 5000-Series instructions to meet Major Defense Acquisition Program (MDAP) statutory and												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604933F I ICBM Fuze Modernization				
regulatory requirements. The DOE/NNSA phase 6.x process is an iterative process that drives overlap and concurrency between activities and events that occur during the Engineering and Manufacturing Development (EMD) and Production and Deployment phases of the DoD 5000-Series Instruction.						
The program entered Phase 6.5 First Production on 6 March 2024. The first flight test was performed in FY 2019, the second flight test was performed in FY 2020, the third in FY 2022, and the final flight test was completed on 4 June 2024. The program was approved to enter Full Rate Production on 21 November 2024. The program is tailored to use the Joint Department of Defense - Department of Energy Phase 6.x processes for routine nuclear stockpile activities to align with USN and DOE/NNSA operations. The next phase will be 6.6 Full Scale Production. Program plans to enter Phase 6.6 during 3QFY2025.						
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY 2024, 0.000M was expended for civilian pay expenses in this program element, and in FY 2025, 0.000M is forecasted for civilian pay expenses in this program element.						
FY 2025 RDT&E funding for PE 0604933F, ICBM Fuze Modernization, is in compliance with budgeted end items per the approved test strategy and FY 2024 Omnibus, Sec. 8059.						
The FY 2026 request was reduced by 0.583 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		71.732	10.408	0.000	0.000	0.000
Current President's Budget		40.447	0.000	3.252	0.000	3.252
Total Adjustments		-31.285	-10.408	3.252	0.000	3.252
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-10.408			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-30.847	0.000			
• SBIR/STTR Transfer		-0.438	0.000			
• Other Adjustments		0.000	0.000	3.252	0.000	3.252

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0604933F I ICBM Fuze Modernization		
Change Summary Explanation The FY 2026 funding increase is due to the Digital Engineering (DE) program requirement extension.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Fuze Design and Development Description: Design and develop the replacement Mk21 fuze required to support the ICBM W87-0 warhead. Coordinate design and development efforts with the ICBM weapon system integrator and flight test analysis. FY 2025 Plans: N/A FY 2026 Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: N/A		28.497	0.000	0.000
Title: Weapon System Integration/Systems Engineering Description: Integrate the replacement Mk21 fuze into the Mk21 W87-0 Reentry Vehicle. Plan and conduct necessary modeling, simulation, and analysis in support of FTU-4 flight test analysis. Coordinate necessary model integration efforts. FY 2025 Plans: FY 2025 was funded with prior year FY 2026 Plans: • Continue Sentinel version of MMIII comparative analysis • Continue Fuze Mod Digital Model development • Begin Fuze Mod Model integration for digital engineering efforts • Complete Red Team Performance Assessment of SNL Radar FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to FY 2025 requirement funded with prior year; FY 2026 is for Digital Engineering (DE) effort.		11.950	0.000	3.252
Accomplishments/Planned Programs Subtotals		40.447	0.000	3.252

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604933F I ICBM Fuze Modernization						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• MPAF 03 Line Item M30FLH: ICBM Fuze Mod	158.789	144.375	120.220	-	120.220	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy											
The ICBM Fuze Modernization program is executing a full cost reimbursable Strategic Partnership Project (SPP) with the DOE/NNSA complex using SNL-CA as the design agent with Sandia Production-NM and KCNSC as the production agents. The program is a collaborative effort with the USN reducing total program cost and development time by leveraging commonality between the ICBM Mk21/W87-0 and Submarine Launched Ballistic Missile MK5/W88 Fuze components. The USN Mk5/W88 Alt 370 fuze was developed first with the USAF Mk21 replacement fuze effort following. Both Services participated in all design and development efforts to ensure maximum use of common components, subassemblies, and technologies. Both Services used DOE/NNSA SNL-CA to perform fuze design and development. The USAF, as lead systems integrator for the Mk21 replacement fuze, awarded option year four of the Weapon System Integration Contract (WSIC) for integration support to assist the government with MMIII unique modifications and fuze integration efforts to Lockheed Martin. Both Services are using KCNSC to produce fuzes. The program completed Milestone C Decision on 4 October 2021 and approved for entrance into Full Rate Production (FRP) on 21 November 2024.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604933F / ICBM Fuze Modernization	Project (Number/Name) 655082 / ICBM FUZE SUPPORT

Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Fuze Preliminary Design Development	MIPR	Sandia National Labs : Albuquerque, NM	740.380	13.200	Nov 2023	-		-		-		-	-	-	753.580
Fuze EMD, Integration and Systems Engineering	Various	Various : Various	17.434	2.770	Nov 2023	0.000	Nov 2024	3.252	Nov 2025	-		3.252	-	-	26.504
Fuze Engineering Change Orders	Various	Various : Various	15.424	1.562	Nov 2023	0.000	Nov 2024	-		-		-	-	-	24.673
Fuze National Security Campus (formerly Kansas City Plant)	MIPR	National Security Campus : Kansas City, MO	311.688	6.125	Nov 2023	-		-		-		-	-	-	349.098
Fuze Weapon System Integration - ICBM Prime	C/CPAF	Northrop Grumman : Clearfield, UT	25.937	-		-		-		-		-	-	-	25.937
Fuze Weapon System Integration - RS/RV Sub-System Contract (SSC)	C/CPAF	Lockheed Martin : King of Prussia, PA	84.691	-		-		-		-		-	-	-	84.691
Fuze Weapon System Integration Contract (WSIC)	C/CPFF	Lockheed Martin : King of Prussia, PA	61.572	11.950	Jan 2024	-		-		-		-	-	-	76.151
Subtotal			1,257.126	35.607		0.000		3.252		-		3.252	-	-	N/A

Remarks

FY 2022 prior years amount includes a \$15.8M decrease due to an Above Threshold Reprogramming (ATR) to the Mk21A Reentry Vehicle Program (PE 0101328F).

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Fuze Engineering Support - ISC Support 1.0	C/FFP	BAE : Clearfield, UT	2.757	1.620	Nov 2023	-		-		-		-	-	-	26.000
Fuze Engineering Support - ISC Support 2.0	C/TBD	TBD : TBD	24.380	0.000	Nov 2023	-		-		-		-	-	-	0.000
Subtotal			27.137	1.620		-		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604933F / ICBM Fuze Modernization				Project (Number/Name) 655082 / ICBM FUZE SUPPORT					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Fuze Lead Project Office Support	MIPR	AFNWC : Albuquerque, NM	10.480	-		-		-		-		-	-	-	10.480
Fuze Finite Element Model Validation	C/CPFF	LMTF : Little Mountain, UT	1.843	-		-		-		-		-	-	-	1.843
Fuze Flight Test Support and Evaluation	Various	Various : Various	10.669	-		-		-		-		-	-	-	10.669
Subtotal			22.992	-		-		-		-		-	-	-	N/A
Remarks															
The design agent, Sandia National Laboratories (listed as Fuze Preliminary Design Development in the R-3 Development section), is executing the test and evaluation efforts within the main design effort. There are no discretely funded test and evaluation efforts outside of the design agent's activities.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Fuze Cost and Financial Management	C/FFP	Tecolote : Salt Lake City, UT	5.157	-		-		-		-		-	-	-	5.157
Fuze FFRDC Support	MIPR	Aerospace : Los Angeles, CA	8.828	0.780	Nov 2023	-		-		-		-	-	-	9.608
Fuze Program Support	C/FFP	BAE : Clearfield, UT	1.285	-		-		-		-		-	-	-	1.285
Fuze Program Support Costs	Various	Various : Various	23.518	2.440	Nov 2023	0.000	Nov 2024	-		-		-	-	-	26.358
Subtotal			38.788	3.220		0.000		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1,346.043	40.447		0.000		3.252		-		3.252	-	-	N/A
Remarks															
Prior year RDT&E includes \$10.037M in PE 0604222F FY 2011 and \$39.536M in PE 0604851F FY 2012.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)		Project (Number/Name)	
3600 / 5		PE 0604933F / ICBM Fuze Modernization		655082 / ICBM FUZE SUPPORT	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
AF ICBM Fuze Modernization Program																												
Engineering and Manufacturing Development																												
Fuze EMD, Integration and Systems Engineering																												
Production and Deployment																												
Fuze Mod Digital Model Development																												
Flight Test 4 (June 2024)																												
Full Rate Production Decision (November 2024)																												
DOE/NNSA Phase 6.5 Entry (Feb 2024)																												
First Production Unit (May 2024)																												
Required Assets Available (RAA) (May 2025)																												
DOE/NNSA Phase 6.6 Entry (June 2025)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604933F / ICBM Fuze Modernization	Project (Number/Name) 655082 / ICBM FUZE SUPPORT	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AF ICBM Fuze Modernization Program				
Engineering and Manufacturing Development	1	2024	3	2025
Fuze EMD, Integration and Systems Engineering	1	2024	4	2028
Production and Deployment	1	2024	4	2028
Fuze Mod Digital Model Development	1	2024	3	2027
Flight Test 4 (June 2024)	3	2024	3	2024
Full Rate Production Decision (November 2024)	1	2025	1	2025
DOE/NNSA Phase 6.5 Entry (Feb 2024)	2	2024	3	2024
First Production Unit (May 2024)	3	2024	3	2024
Required Assets Available (RAA) (May 2025)	2	2025	2	2025
DOE/NNSA Phase 6.6 Entry (June 2025)	3	2025	3	2025

Note

The ICBM Fuze Mod Program discovered the need to de-couple Milestone C and Full Rate Production (FRP) Decision from Phase 6.5 and Phase 6.6 entries respectively. At the time of the initial baseline in 2014, Phase 6.5 and Phase 6.6 were selected as the surrogates for the DoD milestones. Differences between the DOE Phase 6.x process and the DoDI 5000-Series Instruction, as it relates to funding of Title 10 programs, drove a de-coupling of these milestones into the Acquisition Program Baseline. This program is still being managed according to the Phase 6.x process but Milestone C and FRP decisions have been added as milestones that will be accomplished to satisfy statutory requirements of a Major Defense Acquisition Program. Required Assets Available (RAA) has been identified as an adequate substitute for Initial Operating Capability (IOC).

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0605030F <i>I Joint Tactical Network Center (JTNC)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	2.256	0.000	0.000	0.000	0.000	-	-	-	-	-	-
655068: <i>Joint Tactical Radio System (JTRS)</i>	0.000	2.256	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Joint Tactical Networking Center (JTNC) was funded using a Joint budget strategy. Each Military Department (MILDEP) would budget for approximately one-third of the total program RDT&E requirements for joint efforts. Beginning in FY25 and beyond, funding is to be aligned directly to Army PE 0605030A.

A. Mission Description and Budget Item Justification

No FY 2026 funding requested in the Program Element.

No FY 2025 funding was requested in the Program Element. All JTNC funding has been shifted to Army PE 0605030A.

The Joint Tactical Networking Center (JTNC) is chartered to enable the Department of Defense (DoD)'s rapid identification, characterization, procurement, fielding, and sustainment of modular, innovative tactical communications products that ensure secure, interoperable, and resilient Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities. The JTNC provides technical expertise to facilitate tactical communications management, innovation, and standardization. The JTNC: (1) maintains a cyber-hardened DoD Information Repository (IR), (2) provides Technical Analyses/Capability Characterizations on tactical communications products, (3) provides Open Systems Architecture Standards, (4) provides exportability analysis and licensing reviews, and (5) serves as Technical Advisor to the Communications, Command, and Control Leadership Board (C3LB) and Tactical Communications Senior Steering Group (TCSSG).

JTNC mission is executed in coordination with key government stakeholders to include: C3LB, TCSSG, Communications Technologies and Waveforms Working Group (CTWWG), Resiliency Sub-Working Group (RSWG), the Department of Defense (DoD) Chief Information Officer (CIO), Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)), Joint Staff J6 (JS J6), The Under Secretary of Defense for Research and Engineering, abbreviated USD(R&E), and the Services. Particular attention is paid to ensuring that interagency work is collaborative and eliminates duplicative capability. The JTNC enables a common software baseline that is hardware agnostic leading to increased competition for Software Defined Radios (SDR).

Current JTNC directed requirements, outlined by the C3LB, consist of the CTWWG, Joint All-Domain Command and Control (JADC2) support, development/maturation of the DoD IR framework & Cloud migration, and development of the Joint Communications Marketplace (JCM) to meet DoD and Industry requirements in conjunction with DoD Instruction 4630.09. Through collaboration with USD R&E (INSS) and industry partners, JTNC is in the process of capturing information on resilient waveform technologies and portfolio products. The ultimate goal is to expedite market research activities by collecting, analyzing, and making data available in support of emerging Government waveform acquisitions. The JTNC and Joint Interoperability Test Command (JITC) co-chair the High-Frequency Interoperability and Architecture Sub-Working Group (HF I&A SWG) to resolve HF 3G and 4G interoperability issues, thus facilitating next-generation HF systems. The JTNC HF team is also pathfinding for a

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0605030F I Joint Tactical Network Center (JTNC)				
new tactical MIL-STD to provide more resilient communications. Additionally, the JTNC is engaged in the analysis of software artifacts involving high assurance devices, such as software defined radios ported with specific waveforms to support National Security Agency (NSA) efforts. The JTNC participates in Standards-related activities such as the Interface Control Working Group (ICWG) and has been collaborating with the Army on the development of C4ISR/Electronic Warfare Modular Open Suite of Standards (CMOSS) specifications. Finally, the JTNC continues evolving its Waveform Assessment and Milestone Review (WASMR) and Capability Characterization processes.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		2.256	0.000	1.471	0.000	1.471
Current President's Budget		2.256	0.000	0.000	0.000	0.000
Total Adjustments		0.000	0.000	-1.471	0.000	-1.471
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Program Adjustment		0.000	0.000	-1.471	0.000	-1.471
Change Summary Explanation						
Balance in FY 2023 through FY 2024 is attributed to a realignment from Air Force (PE 0605030F) to Army (0605030A) as per the Joint Budget Strategy outlined in the JTNC Tri-Military Department Resource Plan. FY 2025 and beyond is to be realigned to Army PE 0605030A.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Joint Tactical Networking Center (JTNC)				2.256	0.000	-
Description: Joint Tactical Networking Center (JTNC) aligns with the Communications, Command, and Control Leadership Board (C3LB), DoD Chief Information Officer (CIO), Joint Staff, the Services, and other key stakeholders for those JTNC chartered processes that ensure secure, interoperable, and resilient tactical communications. The JTNC provides technical expertise to facilitate tactical communications management, innovation, and standardization. The JTNC: (1) maintains a cyber-hardened DoD Information Repository (IR), (2) provides Technical Analyses/Capability Characterizations on tactical communications products, (3) provides Open Systems Architecture Standards, (4) provides exportability analysis and licensing reviews, and (5) serves as						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605030F <i>I Joint Tactical Network Center (JTNC)</i>		
C. Accomplishments/Planned Programs (\$ in Millions) Technical Advisor to the Communications, Command, and Control Leadership Board (C3LB) and Tactical Communications Senior Steering Group (TCSSG). FY 2025 Plans: JTNC will continue to serve as Chair of the Communications Waveforms and Technologies Working Group (CTWWG), supporting both TCSSG and C3LB efforts towards managing Joint warfighter challenges and fielding tactical communications solutions. JTNC will continue technical analysis efforts for C3LB approved waveforms, in accordance with Service priorities and the FY 2024 JTNC Management Plan. The JTNC will continue to support both the Services and Principal Staff Assistant (DoD CIO) in oversight of Lead Service activities as Technical Advisor, assisting in the identification and resolution of cross-service networking disconnects. The JTNC will remain engaged in Joint All Domain Command and Control (JADC2) Operational Planning Teams/ systems engineering support across the Services. The JTNC, through the efforts of the CTWWG's Resiliency Sub-Working Group, will coordinate and socialize resiliency terminology, processes, and support resources to design, test, compare, and field tactical radio products most capable of mitigating adversary detection, interception, geolocation, and jamming threats. The JTNC will continue managing and maintaining the DoD Information Repository (IR), providing controlled access for proprietary and nonproprietary waveforms and associated tactical communications products. The JTNC will enhance DoD IR capabilities by evolving framework compliance and Cloud migration. The JTNC will continue Joint Communications Marketplace (JCM) development to meet DoD and Industry requirements in conjunction with DoD Instruction 4630.09. The JTNC will manage evolution of the JCM to provide value-added collaborative environment tools, enabling Government and Industry to share information on innovative technologies and DoD capability gaps leading to rapid acquisition efforts to meet warfighter needs. JCM capabilities/communities will continue to support PEO C3T and Network Cross-Functional Team (N-CFT) requirements for Industry engagement, Technical Exchange Meetings (TEMs), whitepaper submission and evaluation, and contract efforts. The JTNC will continue development of tactical communications vendor product capability characterizations for commercial off-the-shelf (COTS) and non-developmental item (NDI) tactical communication products. The JTNC will continue to evolve DoD Waveform Standards to facilitate common development, interoperability and re-use, reducing product development time and facilitating faster delivery of capabilities to warfighters. Focused efforts will leverage emerging Spectrum activities and facilitate deployment of the Modular Radio Architecture (MRA). Finally, the JTNC will continue to support export requests and analyses of products for exportability. FY 2025 to FY 2026 Increase/Decrease Statement: No funding in FY 2026 because funding was formally moved to the Army's PE.		FY 2024	FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals		2.256	0.000	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605030F <i>I Joint Tactical Network Center (JTNC)</i>	
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks Joint Tactical Networking Center (JTNC) was funded using a Joint budget strategy through FY24. Each Military Department (MILDEP) would budget for approximately one-third of the total program RDT&E requirements for joint efforts. As of FY25 and beyond, funding is to be realigned directly to Army PE 0605030A.		
E. Acquisition Strategy The Joint Tactical Networking Center (JTNC) is a Joint support program to the Services, the DoD Chief Information Officer (CIO), the Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)), and USD Research and Engineering (USD(R&E)). JTNC core functions as defined in the JTNC Acquisition Decision Memorandum and Charter signed on 20 January 2014 and revalidated on 13 September 2019 include execution in the following areas: Information Repository, Technical Analysis, Open Systems Architecture Standards, Exportability Analysis and Licensing Review, and Technical Advisor to the C3LB. The services derived from these core functions reinforce an acquisition environment which ensures that interoperable, secure, and resilient joint tactical waveforms and wireless communications applications can operate in a variety of hardware transport solutions. There is no funding for JTNC in this PE for FY26, it has been transferred to the Army for FY25 and following. The below acquisition strategy will be implemented by JTNC under the Army PE. The acquisition strategy supports continued development/maturation of the DoD IR, analysis of directed software and artifacts, support of the National Security Agency (NSA) Commercial Communications Security (COMSEC) Evaluation Program (CCEP), JTNC Standards Interface Control Working Group (ICWG), the Capabilities Characterization and Joint Communications Marketplace (CC & JCM). The FY 2026 budget supports the Lead Service Initiative where JTNC will serve as a technical advisor and source of engineering and analytic resources in the conduct of Joint enterprise-level systems engineering and analysis and support DoD CIO. The FY 2026 budget supports the continued management of Joint warfighter challenges and solutions as assigned by the TCSSG. The FY 2026 budget supports Modular Radio Architecture (MRA) work, where JTNC will lead development and promulgation of a framework containing a collection of DoD standards and a description or architecture of how to use these to compose or control a communications system. The MRA defines how to implement a communications system or radio on select platforms.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605030F / Joint Tactical Network Center (JTNC)				Project (Number/Name) 655068 / Joint Tactical Radio System (JTRS)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
JTNC Engineering/ Technical Support, Test and Evaluation, Product Development Support and Program Management	C/Various	G2SS, NIWC PAC/ LANT, APG : CA	-	2.256	Oct 2023	-		-		-		-	-	-	-
Subtotal			-	2.256		-		-		-		-	-	-	N/A
Remarks Not a new start program. FY22 through FY24 funding programmed to Army PE 0605030A as per the Joint Budget Strategy outlined in the JTNC Tri-Military Department Resource Plan.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.256		-		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0605030F / Joint Tactical Network Center (JTNC)		Project (Number/Name) 655068 / Joint Tactical Radio System (JTRS)	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Open Systems Architecture																												
Standards Conformance Evaluations																												
JTNC - Information Repository																												
DoD Waveform Information Repository																												
JTNC - Standards																												
Evolve Waveform Standards and SCA																												
JTNC - Analysis																												
Analyze Waveforms and Associated Artifacts																												
Joint Communications Marketplace (JCM) and Capabilities Characterization (CC)																												
JCM, CC Development																												
TCSSG, CTWWG																												
Support to TCSSG and CTWWG activities																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605030F / Joint Tactical Network Center (JTNC)	Project (Number/Name) 655068 / Joint Tactical Radio System (JTRS)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Open Systems Architecture				
Standards Conformance Evaluations	1	2024	4	2029
JTNC - Information Repository				
DoD Waveform Information Repository	1	2024	4	2029
JTNC - Standards				
Evolve Waveform Standards and SCA	1	2024	4	2029
JTNC - Analysis				
Analyze Waveforms and Associated Artifacts	1	2024	4	2029
Joint Communications Marketplace (JCM) and Capabilities Characterization (CC)				
JCM, CC Development	1	2024	4	2029
TCSSG, CTWWG				
Support to TCSSG and CTWWG activities	1	2024	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0605031F / <i>Joint Tactical Network (JTN)</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.452	0.000	0.000	0.000	0.000	-	-	-	-	-	-
655068: <i>Joint Tactical Radio System (JTRS)</i>	0.000	0.452	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

All continuing JTN efforts are funded in Army Program Element (PE) 0605031A (JTN), Navy PE 0605031N (shared), Air Force PE 0605031F (shared) and United States Marine Corps (USMC) Marine Corps Communications Systems MCPC 112107. As part of the Joint Enterprise Network Manager (JENM) Joint Program budget strategy, the Air Force and Army budget for approximately one-third each of the total Program funds for JENM efforts. The Navy and USMC combined funding equals the other one-third of the JENM Program funding. Prior to the year of execution, Navy and Air Force funding is consolidated in the Army PE (0605031A) and software sustainment funds are realigned between Research, Development, Test and Evaluation (RDT&E) (EF5) and Other Procurement Army (OPA) (B99318) to support the Joint Program acquisition strategy. USMC funding will be provided on an annual basis via Military Interdepartmental Purchase Request (MIPR).

A. Mission Description and Budget Item Justification

EF5 project: The Joint Enterprise Network Manager (JENM) / Joint Network Management Software for Radio Terminals provides a single, converged network management tool allowing the Warfighter to plan, configure, load, and manage the Joint Services' Tactical Radios and their networks in the field - a capability not available in legacy planning systems. Funding supports the full suite of Software defined radios across the services, enabling them to utilize Mobile Ad Hoc Networking (MANET) and other waveforms to include: Mobile User Objective System (MUOS), TrellisWare Scalable Manet (TSM), Warrior Robust Enhanced Network (WREN), Warrior Robust Enhanced Network-Narrowband (WREN-NB), Demand Assigned Multiple Access (DAMA) Satellite Communications (SATCOM), Integrated Waveform(IW), VHF-UHF Line Of Sight (VULOS), Second Generation Antijam Tactical UHF Radio for NATO (SATURN) and Single Channel Ground and Airborne Radio System (SINCGARS) waveform. The Network Management Software provides the Commander the ability to quickly reconfigure critical networks and enhances the S6's ability to conduct Course of Action (COA) Analysis and the Military Decision-Making Process (MDMP), providing commanders critical information regarding their ability to communicate.

EX6 project: Waveforms provides the transport technologies and capabilities necessary to support the overall connectivity of the Unified Network. Waveforms technology assessments, integration, and configuration management enable seamless updates and fluid communication between echelons of the Unified Network.

Waveforms delivers, maintains, and upgrades portable, interoperable, MANET waveforms, Advanced Networking Waveforms (ANWf), and network enterprise services in support of the Army's network modernization strategy.

Waveforms capabilities will remain agile to accommodate emerging warfighter needs by addressing the following:

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0605031F I Joint Tactical Network (JTN)				
(1) Waveform (WF) analysis and system engineering activities for DoD as Lead Service Activity for Ground/Line of Sight (LoS) Waveforms (currently TSM, WREN, and SINCGARS) in accordance with DoD Instruction 4630.09, Communications Waveform Management and Standardization, 23 November 2020. (2) Development and/or integration efforts of Broadcast Waveforms (i.e. SINCGARS, WREN, ANWf) and Radio Services (i.e. enterprise Over The Air Management (eOTAM)) in support of Army Network modernization, and agile mission support initiatives. (3) Viability assessments of ANWf in support of the Integrated Tactical Network (ITN) and future capability sets to ensure waveform performance in advance of formal ITN experimentation and fielding activities. FY 2026 RDT&E dollars will fund the continued development, integration, and testing of new capabilities and waveform enhancements for SINCGARS, WREN, TSM, and ANWf. As well as fund the next generation Government developed waveforms and Radio Service applications, system and architectural engineering for ANWf radio communications technologies, post deployment software support for fielded versions of the waveforms and radio services, program management support, and examine modular and open system architectures (MOSA) to for future integration and waveform porting efficiencies. This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.452	0.000	3.690	0.000	3.690
Current President's Budget		0.452	0.000	0.000	0.000	0.000
Total Adjustments		0.000	0.000	-3.690	0.000	-3.690
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	-3.690	0.000	-3.690
Change Summary Explanation						
Increase in FY2026 funds from FY2024 PB to FY2025 PB due to increase in Air Force's required portion of the cost-sharing for this program, per the Joint Service Agreement.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Joint Tactical Networks JTN - Product Development				0.452	0.000	0.000
Description: Product Development Efforts						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605031F <i>I Joint Tactical Network (JTN)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2025 Plans: -Continue support to JENM design, engineering, integration, and test of planning and management application for the Tactical Radio network. Support alignment with Army Network Modernization, providing further integration of the lower and mid-tier Network Management for Integrated Tactical Network (ITN). This enables Soldiers the ability to manage the entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Development funding will also support completion of MUOS waveform planning simplification and rapid provisioning of MUOS end-user terminals for joint service requirements. JENM planning applications are deployed on, and critically tied to the RAP-TR hardware from Division to the Company level. FY2025 Air Force funds will be realigned to the Army (PE 0605031A), per the Joint Service Agreement, any remaining funding in this line will also be realigned according to the Joint Service Agreement.				
FY 2026 Plans: - Will continue to support the expansion of Joint Network Management Software design, engineering, integration and test of planning and management capabilities for the Tactical Radio Network in support of Joint Service requirements through the use of Matrix and Contractor support. The program office supports the vision of integrating lower and mid-tier Network Management capabilities to enable Soldiers to manage their entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Program office funding will seek to continue development of joint service waveform support as identified in the Joint Network Management Software for Radio Terminals MOA. - Will continue design, engineering, integration and test of planning and management application for the Tactical Radio network in support of the Advanced Networking Waveforms (ANWf). Support alignment with Army Network Modernization, providing further integration of the lower and mid-tier Network Management for Integrated Tactical Network (ITN). This enables Soldiers the ability to manage the entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Continued development provides further integration of the Joint Service Networks and Network Management of its emerging systems to enable Soldiers the ability to effectively manage their networks. Radio planner development efforts seek to continue development of joint service waveform support as identified in the Joint Network Management Software for Radio Terminals MOA. Joint Network Management Software planning applications are deployed on, and critically tied to the RAP-TR hardware from Division to the Company level.				
FY 2025 to FY 2026 Increase/Decrease Statement:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605031F <i>I Joint Tactical Network (JTN)</i>	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
FY25 to FY26 increased from FY 2025 to FY 2026 in support of new waveform development aligning to emerging joint service tactical network management requirements identified in accordance (IAW) with the Joint Network Management Software for Radio Terminals Memorandum of Agreement (MOA). FY 2026 funds represent only the Army's portion of funding. Out-year funding is programmed within the Army PE 0605031A, Navy PE 0605031N, and Air Force PE 0605031F.			
Accomplishments/Planned Programs Subtotals		0.452	0.000
D. Other Program Funding Summary (\$ in Millions) N/A			
Remarks PE 0605031A contains only the JTN Product Manager (PdM) Waveforms and PdM Tactical Cyber Network Operations (TCNO) JENM RDT&E funding. JENM is funded using a Joint budget strategy. Each Military Department (MILDEP) budgets for approximately one-third of the total program RDT&E requirements for joint efforts. Out-year funding is programmed in PE 0605031A by the Army, PE 0605031N by the Navy, and PE 0605031F by the Air Force. USMC funding will be provided on an annual basis via Military Interdepartmental Purchase Request (MIPR). Prior to submission of the President's Budget, the funding from Navy (PE 0605031N) and Air Force (PE 0605031F) is consolidated with Army (PE 0605031A) for execution per the Office of the Secretary of Defense (OSD) direction. Funds are realigned from Navy (PE 0605031N) and Air Force (PE 0605031F) to Army (PE 0605031A) as per the JTN (JENM) Acquisition Program Baseline (APB) and Tri-Service Funding agreement. JENM and baseline planning applications are deployed on the RAP-TR hardware from the Division to Company level. JENM Logistics & Training capabilities are captured under the Joint Network Management System OPA-2 line (JNMS B99318). JENM will continue system improvements for JENM v3.5.X development, which includes upgrades of MUOS, upgrades to JENM Public Key Infrastructure (PKI) certificate management, and cyber enhancements. JTN funding in FY 2026 supports new waveform development, aligning to emerging joint service tactical network management requirements identified in the Joint Network Management Software for Radio Terminals MOA. Funding in FY 2026 and out reflects the Army's portion of funds. Out-year funding is programmed within the Army PE 0605031A, Navy PE 0605031N, and Air Force PE 0605031F.			
E. Acquisition Strategy The Joint Program Executive Office JPEO Joint Tactical Radio System JTRS Acquisition Decision Memorandum ADM of 11 Jul 2012 authorized the JPEO JTRS to transition to the Joint Tactical Network JTN program, which transferred JTRS MDAP programs of record to the Services, and renamed the JTRS Network Enterprise Domain NED program to the JTN program, which transitioned to the Army. The Joint Tactical Networking Center JTNC ADM of 20 Jan 2014 officially chartered the JTNC, assigned responsibility for the development and sustainment of JENM to the Program Manager PM JTN under PdM JENM, and transitioned waveform development and sustainment to the Services. The Army Program Executive Office PEO Command Control Communications Tactical C3T Memos of 25 Jun 2015			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605031F I Joint Tactical Network (JTN)	
transferred all program, development, and configuration control of JENM from Product Manager PdM JENM under PM JTN to PdM WIN-T INC 3 which became PdM Tactical Cyber Network Operations TCNO under PM Tactical Network formally PM WIN-T. PdM TCNO now falls under PM Integration, Interoperability & Services I2S , within PEO C3T. Product Manager for TCNO manages a Government Owned, Government Operated (GOGO) Software Development and Integration Facility which employs competitive contracting strategies for software development and sustainment of the network manager components to ensure warfighter access to the best technology and innovative capabilities while addressing emerging threats and future requirements via an affordable, operationally effective, and timely framework. The Army will continue to lead the Joint Services effort to deliver planning, configuration, loading, and management of the Joint Services' tactical radios and networks in accordance with the Joint Network Management Software for Radio Terminals Memorandum of Agreement (MOA). The MOA documents the transition plan and continuation of the Joint Budget Strategy, with each service contributing approximately one-third of the software development costs beginning in FY 2026.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605031F / Joint Tactical Network (JTN)				Project (Number/Name) 655068 / Joint Tactical Radio System (JTRS)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
JENM Product Development	MIPR	Various : Various, CA	-	0.452	Nov 2023	-		0.000	Nov 2025	-		0.000	-	-	-
Subtotal			-	0.452		-		0.000		-		0.000	-	-	N/A
			Prior Years	FY 2024	FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	0.452	-		0.000		-		0.000	-	-	N/A	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0605031F / Joint Tactical Network (JTN)					655068 / Joint Tactical Radio System (JTRS)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Joint Tactical Network																												
Acquisition Program Baseline (APB) Duration																												
JENM v3.5 Logistics & Training Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605031F / Joint Tactical Network (JTN)	Project (Number/Name) 655068 / Joint Tactical Radio System (JTRS)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Joint Tactical Network				
Acquisition Program Baseline (APB) Duration	4	2026	4	2029
JENM v3.5 Logistics & Training Support	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					PE 0605056F I Open Architecture Management							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	34.239	41.223	44.150	0.000	44.150	-	-	-	-	-	-
656060: Standards Management	0.000	34.239	41.223	44.150	0.000	44.150	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Open Architecture Management (OAM) program element (PE) funds Modular Open Systems Approach (MOSA) maturation and its adoption by weapon systems across the Department of the Air Force (DAF) and the Department of Defense (DoD). Weapons systems that implement MOSA standards streamline integration of capabilities, reduce development timeline, lower life-cycle cost, reduce vendor-lock, and ensure interoperability with emerging capabilities. This enables weapon systems to field capabilities more rapidly and affordably in response to a dynamic threat environment.

This budget funds the progression of Open Mission Systems (OMS), the Universal Command and Control Interface (UCI), and other emerging MOSA standards such as the Sensors Open System Architecture (SOSA). OMS is a non-proprietary, open architecture standard to create reusable and replaceable components that promote speed of integration for adopting weapons systems. The UCI is the DAF's messaging standard for mission-level Command and Control (C2), providing common message definitions to enable C2 coordination across sensors, vehicles, data products, and software.

Funding supports development of new mission-critical OMS/UCI features requested by the 30+ operational adopting platforms across the DAF, DoD and international partners. Funding also supports experimentation, modeling, integration events, and studies to establish a common DAF MOSA approach. This includes leveraging commercial industry standards and government-driven standards. Additionally, funding supports alignment and interoperability across Government Reference Architectures (GRAs) and standards. These efforts use Agile methodologies and Development, Security, and Operations (DevSecOps) software practices to deliver products securely to adopting platforms and enable continuous feedback to improve the standards. Further, funding provides targeted technical exploration and risk reduction with adopting platforms to facilitate their MOSA adoption while identifying any changes required within the DAF's MOSA standards.

In October 2024, the Open Architecture Management Office (OAMO) that managed this funding transitioned to the Architecture and Systems Engineering (ASE) group, Air Force Life Cycle Management Center (AFLCMC), Wright Patterson AFB. In addition to this PE, the ASE group will continue execution of these related activities under the following PEs:

0305206F / Airborne Reconnaissance Systems (672003 / Sensor Open Systems Architecture)

0604602F / Armament/Ordnance Development (655361 / Stores/Aircraft Interface)

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0605056F I Open Architecture Management				
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		36.582	41.223	45.079	0.000	45.079
Current President's Budget		34.239	41.223	44.150	0.000	44.150
Total Adjustments		-2.343	0.000	-0.929	0.000	-0.929
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-1.300	0.000			
• SBIR/STTR Transfer		-1.043	0.000			
• Other Adjustments		0.000	0.000	-0.929	0.000	-0.929
Change Summary Explanation						
In FY 2024, \$1.300 million funding decrease in Project 656060 due to programmatic changes.						
In FY 2024, \$1.043 million funding decrease in Project 656060 due to SBIR Transfer.						
FY 2026 funding increased compared to FY 2025 by \$2.927 million due to growth of open architecture adoption by United States Space Force and Department of Air Force (DAF) Command, Control, Communications and Battle Management (C3BM) platforms, driving increased change requests to the standards to meet new adopter capability requirements for open architecture. In addition, it includes scope to integrate and transition emerging technologies (e.g., Air Force Research Laboratory, commercial, etc.) into DAF open architectures for weapon system adoption.						
The FY 2026 request was reduced by \$0.929 thousand for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Open Architecture Management				34.239	41.223	44.150
Description: Funding supports development of new mission-critical OMS/UCI features requested by the 30+ operational adopting platforms across the DAF, DoD and international partners. Funding also supports experimentation, modeling, integration events, and studies to establish a common DAF MOSA approach. This includes leveraging non-traditional industry standards and government-driven standards, such as the AFRL's Big Iron, and the "Horizontal Integration" approach (formerly known as Government Avionics Reference Architecture or GARA) effort to streamline integration across multiple architectures and						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605056F <i>I Open Architecture Management</i>		
C. Accomplishments/Planned Programs (\$ in Millions) standards. These efforts use agile methodologies and Development, Security, and Operations (DevSecOps) software practices to deliver products securely to adopting platforms and enable continuous feedback to improve the standards. Additionally, funding provides targeted technical exploration and risk reduction with adopting platforms to facilitate their MOSA adoption while identifying any changes required within the DAF's MOSA standards. FY 2025 Plans: -Deliver OMS and UCI Release 2.5 -Complete 83 Change Requests (CR) in FY25 -Mature open architecture standards to include multi-domain capabilities, interoperability, cloud-computing implementations, etc. -Improve Starter Kits to ease adopting platform implementation -Improve cybersecurity and interoperability of UCI message sets -Conduct targeted training to USSF, C3BM, Collaborative Combat Aircraft (CCA), and other key adopting platforms -Provide adopting platforms preferred GRAs and standards -Increase Models-Based System Engineering (MBSE) products within open architecture standards FY 2026 Plans: -Complete 85-95 CRs in FY26 -Continue technical maturation of the OMS and UCI standards -Continue to update the standards to account for emerging technologies and operational weapon system feature requests -Increase adoptability with USSF/C3BM systems to support DAF Battle Network -Conduct targeted training to new and existing adopters -Merge subsystem architectures with open architecture management -Develop and update open hardware technical standards for government reference architecture implementations -Define domain-specific data modeling usage for joint interoperability -Mature MBSE products within open architectures FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increased compared to FY 2025 by \$2.927 million due to growth of open architecture adoption by United States Space Force and Department of the Air Force (DAF) Command, Control, Communications and Battle Management platforms, driving increased change requests to the standards to meet new adopter capability requirements for open architecture. In addition, it includes scope to integrate and transition emerging technologies (e.g., Air Force Research Laboratory, commercial, etc.) into DAF open architectures for weapon system adoption.		FY 2024	FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals		34.239	41.223	44.150

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605056F I Open Architecture Management	
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
E. Acquisition Strategy The Open Architecture Management Office (OAMO) awarded a follow-on contract as part of the Air Force Life Cycle Management Center's (AFLCMC's) indefinite delivery/indefinite quantity (IDIQ) to continue standards development and maturation activities conducted under a previously classified Air Force RDT&E Program Element. The contract is a cost-plus fixed fee (CPFF) IDIQ that was awarded in December 2023. The first delivery order has a period of performance of two years beginning 1 January 2024. Program management for the open architecture management programs transitioned in October 2024 from the OAMO under the AFLCMC to the Architecture and Systems Engineering (ASE) group under the AFLCMC, located at Wright Patterson AFB, OH. The ASE group is evaluating the OAMO approach and developing an updated acquisition strategy to curate, mature, integrate, and field several open architectures beginning execution in August 2025 and transition OAM activity to the new ASE contract by 30 Dec 2025. Additionally, the OAM PE leverages technical expertise via a modular contracting approach and provided by Government Agencies, Federally Funded R&D Centers, and advisory/assistance contractors.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605056F / Open Architecture Management				Project (Number/Name) 656060 / Standards Management					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Open Architecture Collaborative Working Group - Various	C/CPFF	Various : Various	-	-		-		27.920	Dec 2025	-		27.920	-	-	-
Open Architecture Collaborative Working Group - Anduril	C/CPFF	Anduril : Costa Mesa, CA	-	1.694	Dec 2023	2.425	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
Open Architecture Collaborative Working Group - Boeing	C/CPFF	Boeing Company : St. Louis, MO	-	3.495	Dec 2023	4.155	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
Open Architecture Collaborative Working Group - Collins Aerospace	C/CPFF	Collins Aerospace : Cedar Rapids, IA	-	0.739	Dec 2023	0.955	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
Open Architecture Collaborative Working Group - General Dynamics	C/CPAF	General Dynamics : Fairfax, VA	-	1.649	Dec 2023	1.524	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
Open Architecture Collaborative Working Group - Lockheed Martin	C/CPFF	Lockheed Martin : Fort Worth, TX	-	5.132	Dec 2023	5.850	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
Open Architecture Collaborative Working Group - Northrop Grumman	C/CPFF	Northrop Grumman : Melbourne, FL	-	7.951	Dec 2023	9.183	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
Open Architecture Collaborative Working Group - Raytheon	C/CPFF	Raytheon Company : El Segundo, CA	-	1.969	Dec 2023	2.818	Dec 2024	0.000	Dec 2025	-		0.000	-	-	-
76th Software Maintenance Group (76 SMXG) Development	PO	76 SWEG : Tinker AFB, OK	-	4.997	Dec 2023	5.595	Dec 2024	6.144	Dec 2025	-		6.144	-	-	-
Air Force Research Laboratory (AFRL) Science and Technology Initiatives	MIPR	AFRL : Various	-	1.575	Dec 2023	2.140	Dec 2024	2.250	Dec 2025	-		2.250	-	-	-
Integrations Experiments and Prototypes Initiatives	Various	Various : Various	-	3.323	Dec 2023	4.774	Dec 2024	5.991	Dec 2025	-		5.991	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605056F / Open Architecture Management						Project (Number/Name) 656060 / Standards Management			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Subtotal			-	32.524		39.419		42.305		-		42.305	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration	Various	OAM Program Office : Wright-Patterson AFB, OH	-	1.715	Jan 2024	1.804	Jan 2025	1.845	Jan 2026	-		1.845	-	-	-
Subtotal			-	1.715		1.804		1.845		-		1.845	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	34.239		41.223		44.150		-		44.150	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025																			
Appropriation/Budget Activity 3600 / 5										R-1 Program Element (Number/Name) PE 0605056F / <i>Open Architecture Management</i>										Project (Number/Name) 656060 / <i>Standards Management</i>									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Develop and Evolve Standards																												
New OA Contract Strategy (Phased work structure)																												
OMS & UCI Standards Deliveries																												
Horizontal Integration Deliveries																												
Transition AFRL OA's																												
Integration and Test Events																												
Small Business & Product Support																												
Follow On Small Business & Product Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605056F / Open Architecture Management	Project (Number/Name) 656060 / Standards Management	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Develop and Evolve Standards				
New OA Contract Strategy (Phased work structure)	1	2025	4	2028
OMS & UCI Standards Deliveries	2	2026	4	2030
Horizontal Integration Deliveries	4	2025	4	2030
Transition AFRL OA's	4	2025	4	2028
Integration and Test Events	3	2025	4	2030
Small Business & Product Support	3	2025	1	2026
Follow On Small Business & Product Support	2	2026	2	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605223F I Advanced Pilot Training							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	1,073.657	58.803	248.589	172.378	0.000	172.378	-	-	-	-	-	-
655340: Advanced Trainer Replacement T-7A	1,073.657	58.803	248.589	172.378	0.000	172.378	-	-	-	-	-	-
Quantity of RDT&E Articles	5	-	4	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 436												
A. Mission Description and Budget Item Justification												
The Advanced Pilot Training (APT)/T-7A Red Hawk program will replace the Air Education Training Command's (AETC) aging T-38C fleet with new aircraft, Ground Based Training System (simulators, training devices, computer based training systems, academics, etc.), Maintenance Training System, and support infrastructure currently used in the fighter/bomber advanced Specialized Undergraduate Pilot Training track as well as in the Introduction to Fighter Fundamentals program. The APT/T-7A Red Hawk program acquisition strategy was approved by OSD (AT&L) in December 2016. In addition, the APT/T-7A Red Hawk Team completed their Development Request for Proposal (RFP) Release Defense Acquisition Board and subsequently released the RFP to industry on 30 December 2016. The Program completed source selection evaluations and Milestone B and awarded a Fixed Price Incentive Firm (FPIF) Indefinite Delivery/Indefinite Quantity (ID/IQ) contract to The Boeing Company on 27 September 2018.												
The Maintenance Training System (MTS) effort is a Delivery Order under a separate ID/IQ Contract and was competitively awarded on 11 April 2025 to Pinnacle Solutions, LLC. The T-7A MTS will provide maintainers with the foundational skills and core competencies required to maintain the T-7A aircraft and its associated subsystems. The MTS will be a blended training solution to include: a.) a suite of Maintenance Training Devices (MTDs) with associated support equipment; b.) Interactive Multimedia Instruction (IMI)/courseware and training material; c.) smart classrooms to facilitate instructor-led training; and d.) support environments to manage training schedules, student data, and updates to all training capabilities. The T-7A MTS program will encompass the design, development, integration, and test of the most efficient and effective combination of training capabilities, as well as Contractor Logistics Support (CLS) performance.												
Funding contained in this platform's documentation directly aids AETC flying training enterprise to continue its overall future pilot production increase that began in FY 2020, thus reducing the USAF Pilot Shortage.												
The service originally planned to award Boeing its first Low Rate Initial Production (LRIP) production contract to build the seven T-7s in FY 2025. The service will now award a contract for 14 LRIP Aircraft in FY 2026 under a revised acquisition strategy . This new strategy will procure four additional T-7 production Relevant Test Vehicles (PRTVs) using FY 2025 research and development funds that will be delivered in FY 2026. The Incentive Strategy will expedite closure of EMD testing, increase Boeing's production readiness at its facility in St Louis, MS, and accelerate entrance into Initial Operational Test and Evaluation (IOT&E) at Randolph Air Force Base in Texas.												
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0605223F I Advanced Pilot Training				
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$2.423 million was expended for civilian pay expenses in this program element, and in FY 2025 \$2.695 million is forecasted for civilian pay expenses in this program element.						
The FY 2026 request was reduced by \$1.814 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		77.252	83.985	30.826	0.000	30.826
Current President's Budget		58.803	248.589	172.378	0.000	172.378
Total Adjustments		-18.449	164.604	141.552	0.000	141.552
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-2.272	-47.696			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	212.300			
• Reprogrammings		-14.701	0.000			
• SBIR/STTR Transfer		-1.476	0.000			
• Other Adjustments		0.000	0.000	141.552	0.000	141.552
Change Summary Explanation						
FY 2024 budget request was reduced by a total of \$18.449 million due to a Congressional Directed Reduction of \$2.272 million for Engineering, Manufacturing & Development (EMD) carryover, a Below Threshold Reprogramming for 14.701 million to support higher Air Force priorities and \$1.476 million to support Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs.						
FY 2025 budget request increased by an overall total of \$164.604 million that includes an Air Force requested transfer from Aircraft Procurement for \$212.300 million to implement an acquisition strategy change and fund four additional T-7 production-relevant test vehicles and Congressional Directed Reductions totaling \$47.696 million for Active Management excess to need (\$32.500 million), EMD efforts early to need (\$13.094 million) and Excess to need (\$2.102 million).						
FY 2026 funding request increased by \$141.552 million for Maintenance Training System (MTS) development and to continue implementation of the new acquisition strategy.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605223F I Advanced Pilot Training	

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Advanced Pilot Training (APT) Program Description: The Advanced Pilot Training (APT) / T-7A Red Hawk program has an approved acquisition strategy, completed Milestone B, and has progressed into the Engineering and Manufacturing Development (EMD) phase. The effort includes development, test, studies, analysis, acquisition documentation, market research activities, and engineering changes to reduce risk and support the acquisition strategy and engineering and manufacturing development. FY 2025 Plans: Continue Developmental Test & Evaluation (DT&E), prepare for Initial Operational Test and Evaluation (IOT&E), conduct Maintenance Training System (MTS) development, and procure additional test articles to serve as production representative test vehicles (PRTVs) to support IOT&E. FY 2026 Base Plans: Continue Developmental Test & Evaluation (DT&E), plan for Initial Operational Test and Evaluation (IOT&E), conduct Maintenance Training System (MTS) development activities and execute engineering changes. FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to the purchase of 4 PRTVs, resulting in decreased developmental support activities.	58.803	248.589	172.378	0.000	172.378
Accomplishments/Planned Programs Subtotals	58.803	248.589	172.378	0.000	172.378

D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• APAF 03 APT000: <i>Advanced Pilot Training T-7A</i>	0.000	20.780	362.083	-	362.083	-	-	-	-	-	-
• APAF 06 APT000: <i>Advanced Trainer Replacement T-7A</i>	0.000	19.638	43.000	-	43.000	-	-	-	-	-	-
• APAF 07 Line Item 000075: <i>Other Production Charges</i>	0.000	22.979	51.510	-	51.510	-	-	-	-	-	-
• OPAF 02 822990: <i>Cargo and Utility Vehicles</i>	1.104	0.000	0.000	-	0.000	-	-	-	-	-	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)						R-1 Program Element (Number/Name) PE 0605223F I Advanced Pilot Training					
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• OPAF 02 825990: Materials Handling Vehicles	0.401	0.304	0.000	-	0.000	-	-	-	-	-	-
• OPAF 03 Line Item 837300: Base Comm Infrastructure	0.000	0.000	0.000	-	0.000	-	-	-	-	-	-
• OPAF 04 845010: Base Procured Equipment	11.444	22.850	19.656	-	19.656	-	-	-	-	-	-
• MILCON PE 0804701F: T-7A (Advanced Pilot Trainer) Procurement	39.543	82.100	193.680	-	193.680	-	-	-	-	-	-
Remarks											
Advanced Pilot Training T-7A total APAF funding is \$6,827.134 million which includes FY 2023 \$10.507 million.											
Other Procurement funding is \$104.082 million which includes FY 2021 \$0.300 million and FY 2023 \$0.700 million.											
MILCON PE 0804701F total funding is \$632.074 million which includes FY 2020 \$31.600 million, FY 2021 \$23.400 million, FY 2022 \$18.590 million, and FY 2023 \$4.938 million.											
E. Acquisition Strategy											
The APT/T-7A Red Hawk Program will develop, test, acquire, and sustain an affordable, agile, and integrated APT System consisting of 351 aircraft, Ground Based Training System, Maintenance Training System, support, infrastructure, and personnel to meet Air Education and Training Command's (AETC) need date of FY 2027.											
The APT/T-7A Red Hawk program's acquisition strategy leveraged market conditions by competing and awarding development, production, and initial sustainment in a single contract award. The Program completed source selection evaluations and Milestone B in September 2018, and awarded a Fixed Price Incentive Firm (FPIF) Indefinite Delivery, Indefinite Quantity (IDIQ) contract to The Boeing Company on 27 September 2018 to provide for development, integration, and testing needed to meet existing Advanced Pilot Trainer (APT) requirements. Contract options include Low Rate Initial Production, Full Rate Production and initial sustainment transition. In 2025, the Program Office adopted a new acquisition strategy, including a phased Milestone C approach, to expedite the completion of the Engineering and Manufacturing Development (EMD) phase and support production efforts.											
The service originally planned to award Boeing its first Low Rate Initial Production (LRIP) production contract to build the seven T-7s in FY 2025. The service will now award a contract for 14 LRIP Aircraft in FY 2026 under a revised acquisition strategy . This new strategy will procure four additional T-7 Production Relevant Test Vehicles (PRTVs) using FY 2025 research and development funds that will be delivered in FY 2026. The Incentive Strategy will expedite closure of EMD testing,											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605223F I Advanced Pilot Training	
increase Boeing's production readiness at its facility in St Louis, MS, and accelerate entrance into Initial Operational Test and Evaluation (IOT&E) at Randolph Air Force Base in Texas.		
The Maintenance Training System (MTS) acquisition strategy is to acquire Maintenance Training Devices (MTDs), and associated support structure, for an AETC Centralized Training Facility (CTF) and four Unit Maintenance Training Facilities (UMTFs). The MTS delivery order was awarded via under a separate ID/IQ contract on 11 April 2025. The MTS EMD phase will develop and operationalize the CTF with MTD courseware, Training System Support Center (TSSC), the technical data package, and support equipment to ensure system availability and concurrency with the aircraft. The MTS Production phase will develop and operationalize a subset of MTDs for each of the four UMTFs. The Contractor Logistics Support (CLS) will encompass sustainment support of the MTDs at the CTF and UMTFs until two years post-production completion.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605223F / Advanced Pilot Training				Project (Number/Name) 655340 / Advanced Trainer Replacement T-7A					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Trainer Replacement T-7A Aircraft and Ground Based Training Systems Contract	C/FPIF	The Boeing Company : St. Louis, MO	883.074	10.478	May 2024	153.489	Jan 2026	106.739	Jan 2026	-		106.739	-	-	-
Advanced Trainer Replacement T-7A Maintenance Training System Contract	C/FPIF	Pinnacle Solutions, LLC : Huntsville, AL	0.000	14.984	Apr 2025	40.581	Jan 2026	25.235	Jan 2026	-		25.235	-	-	-
Subtotal			883.074	25.462		194.070		131.974		-		131.974	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Trainer Replacement T-7A Mission Support	PO	Various : Various	34.613	4.198	Apr 2024	5.696	Dec 2024	3.661	Dec 2025	-		3.661	-	-	-
Direct Cite Authority Civilian Pay	Various	AFLCMC : Dayton, OH	5.626	2.423	Dec 2023	2.695	Oct 2024	2.768	Oct 2025	-		2.768	-	-	-
Subtotal			40.239	6.621		8.391		6.429		-		6.429	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Advanced Trainer Replacement T-7A Test Support	PO	Edwards AFB : Edwards AFB, CA	57.941	14.368	Jan 2024	23.380	Jan 2025	17.128	Jan 2026	-		17.128	-	-	-
Subtotal			57.941	14.368		23.380		17.128		-		17.128	-	-	N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605223F / Advanced Pilot Training				Project (Number/Name) 655340 / Advanced Trainer Replacement T-7A					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	AFLCMC : Dayton, OH	92.403	12.352	Jan 2024	22.748	Dec 2024	16.847	Dec 2025	-		16.847	-	-	-
Subtotal			92.403	12.352		22.748		16.847		-		16.847	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1,073.657	58.803		248.589		172.378		-		172.378	-	-	N/A
Remarks															
Prior Years funding total of \$4.994 million was executed in PE 0604233F. Prior years amounts and categories under Program 0604233F, Specialized Undergraduate Flight Training include Advanced Pilot Training Studies and Analysis, \$0.935 million; Advanced Pilot Training PMA Government Costs, \$1.383 million; and, Advanced Pilot Training Advisory and Assistance Services (A&AS), \$2.676 million.															
FINANCIAL PERFORMANCE: Advanced Pilot Training (APT) T-7A Red Hawk is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, however, the Advanced Pilot Training (APT) T-7A Red Hawk Engineering, Manufacturing & Development (EMD) Acquisition Phase contract is a Fixed Price Incentive Firm (FPIF) contract with progress payments. Ten (10%) percent of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0605223F / Advanced Pilot Training				Project (Number/Name) 655340 / Advanced Trainer Replacement T-7A			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Advanced Pilot Training																												
Engineering and Manufacturing Development (EMD) Phase																												
Development, Test and Evaluation																												
Milestone C																												
Maintenance Training System Development																												
Aircraft / Ground Based Training System (GBTS) Production																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605223F / Advanced Pilot Training	Project (Number/Name) 655340 / Advanced Trainer Replacement T-7A	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Advanced Pilot Training				
Engineering and Manufacturing Development (EMD) Phase	1	2024	4	2028
Development, Test and Evaluation	1	2024	1	2027
Milestone C	2	2026	2	2026
Maintenance Training System Development	3	2025	4	2028
Aircraft / Ground Based Training System (GBTS) Production	1	2026	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605229F I HH-60W							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	1,996.041	39.815	0.000	0.000	0.000	0.000	-	-	-	-	-	-
654364: Combat Rescue Helicopter	1,996.041	39.815	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	11	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 479												
Note In FY 2025, PE 0605229F, HH-60W, Project 654364, Combat Rescue Helicopter, Budget Activity 5, System Development & Demonstration (SDD) efforts transferred to PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development, Budget Activity 7, Operational Systems Development to transition the HH-60W program from production to post-production capability upgrades and sustainment. A. Mission Description and Budget Item Justification The HH-60W also referred to as the Combat Rescue Helicopter (CRH) will replace the aging HH-60G. The HH-60G currently supports the Air Force's core function of Personnel Recovery. The primary mission of the HH-60G is to conduct day / night / marginal weather Combat Search and Rescue (CSAR) in order to recover downed aircrew or other isolated personnel in hostile or non-permissive environments. The CRH will be capable of employment day or night, in adverse weather, and across the full spectrum of threats to include chemical, biological, radiological, and nuclear. On-board defensive capabilities will permit the CRH system to operate with less risk than legacy systems in an increased threat environment. An in-flight air refueling capability will provide an airborne alert capability and extend its combat mission range. The CRH system is capable of conducting combat search and rescue airborne mission commander duties. The aircraft will be self-supporting to the maximum extent practical. The CRH system may also conduct other collateral missions inherent in their capabilities to conduct Personnel Recovery, such as non-conventional assisted recovery, non-conventional evacuation operations, defense support to civil authorities, civil search and rescue, international aid, emergency aeromedical evacuation, disaster/humanitarian relief, counter-drug activities, support for National Aeronautics and Space Administration flight operations, and insertion/extraction of combat forces. The CRH development program procured a total of 11 aircraft as follows: 4 Engineering, Manufacturing, and Development (EMD) aircraft, 5 System Demonstration Test Article (SDTA) aircraft, and 2 modernization flight test aircraft. The CRH program office will procure necessary ground and flight assets required for both Development Test (DT) and Initial Operational Test & Evaluation (IOT&E). The CRH EMD program includes development of the complete CRH training system to include CRH Weapon System Trainer (WST), Operational Flight Trainer (OFT), Airframe Systems Trainer (AST), Avionics Desktop Trainer (AVDTT), other training devices, with associated spares and support equipment, as well as courseware required to perform flight, aircrew and maintenance training. Other development efforts include a systems integration laboratory, an avionics integration support facility, procurement of data rights and licenses, spares, aircraft, Government test, product support and program support costs (PSC). The CRH program will also pursue modernization efforts to develop and integrate enhancements in mission/defensive systems												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605229F I HH-60W	
and additional system upgrades to address critical capability gaps. The program office will utilize the additional flight test aircraft in support of modernization efforts to address emerging threats and evolving mission needs. The Delta Training Device (DTD) effort will procure additional training assets, including but not limited to, maintenance and aircrew Crew Chief Part Task Trainers (CCPTT), aircrew Hoist Procedural Trainers (HPT), Virtual Reality (VR)/Mixed Reality (MR) maintenance aircrew trainers, associated spares and support equipment, as well as Type 1 training. Capability upgrades and modernization development efforts for the CRH may include, but are not limited to, the following priorities: Situational Awareness Data Link/ Automatic Direction Finder (SADL/ADF) Removal, Directional Infrared Countermeasures (DIRCM), Electro Optical/Infrared (EO/IR) Tactical Overlay, Global Positioning System Anti-Jam/Anti-Spoof (GPS-AJ), Degraded Visual Environment (DVE) system, Integrated Vehicle Health Monitoring System Control (IVHMS), Video Data Link (VDL), Radio Frequency Jammer (RF-Jammer), Mobile User Objective System (MUOS), Link 16, Joint Range Extension Applications Protocol (JREAP), Electronic Flight Bags, and Automated Dependent Surveillance Broadcast - In Device. Capability upgrades and modernization also supports inclusion for mandates, system enhancements, hardware and software changes for diminishing manufacturing sources and material shortages as well as Deficiency Report Resolutions. In addition, studies, development, prototyping, testing and integration of emerging technology and support equipment opportunities to increase the effectiveness of the platform are considered in capability upgrades and modernization initiatives. The CRH program funding also supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/ demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs. This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D. This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY 2024, \$4.997 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.000 million is forecast for civilian pay expenses in this program element. This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0605229F I HH-60W			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	48.268	0.000	0.000	0.000	0.000
Current President's Budget	39.815	0.000	0.000	0.000	0.000
Total Adjustments	-8.453	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-7.292	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.161	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000
Change Summary Explanation					
FY 2024 funding request was reduced by a total of \$8.453 million for Congressional Marks totaling \$7.292 million for support costs excess to need (\$0.892 million) and Capability Upgrades early to need (\$6.400 million) and \$1.161 million for Small Business Innovation Research (SBIR) program.					
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: HH-60W Development	12.656	0.000	0.000	0.000	0.000
Description: Develop a new helicopter, associated training system and support elements that leverage fielded, non-developmental technologies to recapitalize the HH-60G fleet.					
FY 2025 Plans: N/A					
FY 2026 Base Plans: N/A					
FY 2026 OOC Plans: N/A					
FY 2025 to FY 2026 Increase/Decrease Statement: N/A					
Title: HH-60W Government Test and Evaluation	3.829	0.000	0.000	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605229F I HH-60W						
C. Accomplishments/Planned Programs (\$ in Millions)						FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Description: Conduct test and evaluation on the HH-60W and associated training systems to support DT&E, IOT&E, Live Fire Test and Evaluation (LFT&E), and other test planning and organizational support. FY 2025 Plans: N/A FY 2026 Base Plans: N/A FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: N/A											
Title: Capability Upgrades & Modernization Description: Modernize the HH-60W fleet by studying, prototyping, testing and integrating developmental and non-developmental technologies into the platform, including electro-optical infrared technology imaging system. FY 2025 Plans: N/A FY 2026 Base Plans: N/A FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: N/A						23.330	0.000	0.000	0.000	0.000	
Accomplishments/Planned Programs Subtotals						39.815	0.000	0.000	0.000	0.000	
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 07 0605229F: HH-60W	0.000	39.629	43.579	-	43.579	-	-	-	-	-	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605229F I HH-60W						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cos
• APAF 04 Line Item H060WH: Combat Rescue Helicopter	597.408	355.185	107.500	-	107.500	-	-	-	-	-	-
• APAF 06 Line Item H060WH: Combat Rescue Helicopter	0.000	1.859	2.329	-	2.329	-	-	-	-	-	-
• APAF 05 Line Item H060WM: HH60W Modifications	0.000	18.911	9.150	-	9.150	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy											
Procure a new helicopter and associated training systems, and support elements that leverage fielded non-developmental technologies to re-capitalize the HH-60G fleet.											
Under the development effort, the CRH program procured a total of 11 aircraft: four Engineering, Manufacturing, and Development (EMD) aircraft, five System Demonstration Test Article (SDTA) aircraft, and two modernization flight test aircraft. The FY 2020 PB added the modernization flight test aircraft. The CRH program office will procure necessary ground and flight assets required for both Development Test (DT) and Initial Operational Test & Evaluation (IOT&E).											
The main CRH program includes development of the complete CRH system to include delivery of 11 aircraft, associated training systems to include WST, OFT, AVDTT, AST, other Part Task Trainers, associated spares and support elements/equipment, as well as Type 1 training and courseware required to perform flight, aircrew and maintenance training. An additional prime contract was awarded to develop and acquire additional training devices. Other efforts include, but are not limited to development of a systems integration laboratory and an avionics integration support facility, as well as procurement of data rights and licenses, spares, product support and program support costs for the EMD effort. The CRH modernization effort will maximize, where possible, opportunities for production line cut-in to minimize the amount of future post-production modifications needed.											
The current contract types for this effort are predominantly Fixed Price. As originally planned following source selection, a formal CRH Training System Requirements Analysis (TSRA) was completed in Sep 2015. This analysis identified additional training requirements not accounted for in the original contract. A subsequent TSRA review incorporating the latest annual Ready Aircrew Program (RAP) Tasking Memorandum (RTM) clarified the additional training requirements to increase the research and development of training devices and courseware. These additional training devices, associated spares, support equipment, Type 1 Training and initial contractor support were competitively awarded in Aug 2018.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605229F / HH-60W				Project (Number/Name) 654364 / Combat Rescue Helicopter					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
HH-60W aircraft development, integration, test articles, trainers, support and contractor test	C/FPIF	Sikorsky Aircraft Corporation : Stratford, CT	1,700.780	7.031	Mar 2025	-		-		-		-	-	-	-
Acquisition of additional HH-60W training devices including MACE	C/FFP	Various : TBD	39.562	-		-		-		-		-	-	-	-
HH-60W Capability Upgrades and Modernization - New IDIQ Contract and EOIR	C/FPIF	Sikorsky Aircraft Corp : Stratford, CT	98.058	23.330	Sep 2024	-		-		-		-	-	-	-
Subtotal			1,838.400	30.361		-		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
HH-60W product support related to aircraft development, integration, test articles, trainers and contractor test	Various	Various : TBD	57.640	0.628	Jun 2025	-		-		-		-	-	-	-
Direct Cite Civ Pay	Various	AFLCMC : TBD	7.407	4.997	Feb 2025	-		-		-		-	-	-	-
Subtotal			65.047	5.625		-		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
HH-60W planning and testing to support developmental and operational test, live fire	PO	413th Test Squadron : Eglin AFB, FL	53.668	3.829	Dec 2024	-		-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605229F / HH-60W				Project (Number/Name) 654364 / Combat Rescue Helicopter					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
test and other weapon system testing and support															
Subtotal			53.668	3.829		-		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
HH-60W A&AS Support	C/CPFF	EPASS : Dayton, OH	28.761	-		-		-		-		-	-	-	-
HH-60W Other Program Support Costs	Various	Various : Various	10.165	-		-		-		-		-	-	-	-
Subtotal			38.926	-		-		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1,996.041	39.815		-		-		-		-	-	-	N/A
Remarks															
FINANCIAL PERFORMANCE: HH-60W is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, however, the HH-60W EMD contract is a Fixed Price Incentive Fee (FPIF) contract with progress payments. Ten (10%) percent of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.															
FY 2020+: Transitioned Management Services to APAF.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 5					PE 0605229F / HH-60W			654364 / Combat Rescue Helicopter				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
HH-60W																												
HH-60W EMD Development																												
HH-60W Test and Evaluation																												
Developmental Test and Evaluation																												
Capability Upgrades and Modernization																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605229F / HH-60W	Project (Number/Name) 654364 / Combat Rescue Helicopter	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
HH-60W				
HH-60W EMD Development	1	2024	4	2025
HH-60W Test and Evaluation	1	2024	4	2025
Developmental Test and Evaluation	1	2024	3	2025
Capability Upgrades and Modernization	1	2024	4	2025

Note
In FY 2025, Capability Upgrades and Modernization efforts under PE 0605229F, HH-60W, Project 654364, Combat Rescue Helicopter, Budget Activity 5, System Development & Demonstration (SDD) transferred to PE 0605229F, HH-60W, Project 670001, HH-60W Modernization Development, Budget Activity 7, Operational Systems Development to transition the HH-60W program from production to post-production capability upgrades and sustainment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605238F I Ground Based Strategic Deterrent EMD							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	3,434.623	4,327.250	2,011.024	2,647.563	0.000	2,647.563	-	-	-	-	-	-
655238: GROUND BASED STRATEGIC DETERRENT (GBSD)	3,434.623	4,327.250	2,011.024	2,647.563	0.000	2,647.563	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 493												
Note The FY 2026 request for LGM-35A Sentinel includes 2,647,563 thousand of discretionary and 1,500,000 thousand of mandatory (reconciliation) for a total of 4,147,563 thousand. The mandatory funds continues the development of the LGM-35A Sentinel weapon system through the program restructure after the Nunn-McCurdy recertification. Further information for this reconciliation request is provided in Section 20008 (Nuclear) of the Reconciliation Exhibit. The Secretary of Defense's Nunn-McCurdy decision on July 8, 2024 recertified the LGM-35A Sentinel program. The Milestone Decision Authority rescinded the 2020 Milestone B decision which allows the Program Office to focus on the reassessment and refinement of requirements as they translate to system specifications, technical maturation of the system design, and cost and schedule risk mitigation strategies. The Program Office will work with stakeholders to update program requirements, quantities, and milestones to align with the outcomes of the reassessments and refinements. In FY 2023, Program 0605230F, Ground Based Strategic Deterrent, Project 641025, Ground Based Strategic Deterrent, efforts were transferred to Program 0605238F, Ground Based Strategic Deterrent EMD, Project 655238, Ground Based Strategic Deterrent, in order to account for program transition to System Development and demonstration. (Budget Activity 5). A. Mission Description and Budget Item Justification The GBSD program has been designated as the LGM-35A Sentinel. The LGM-35A Sentinel weapon system, being developed in the Sentinel Systems Program Office of the ICBM Systems Directorate, incorporates the Sentinel weapon system which is called out in related ICBM Systems Directorate portfolio programs that includes Intercontinental Ballistic Missile (ICBM) Reentry Vehicles and ICBM Fuze Modernization. The LGM-35A Sentinel program is modernizing the U.S. ground-based nuclear deterrent by replacing the aging Minuteman III ICBM system. The Sentinel program will develop, produce, and deploy a fully integrated ICBM weapon system designed for enhanced safety, security, reliability, and effectiveness. This next-generation system aims to lower lifecycle costs while closing key capability gaps and addressing vulnerabilities identified in prior assessments. The program also mitigates the diminishing effectiveness of the current land-based deterrent caused by the age and obsolescence of Minuteman III components.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605238F I Ground Based Strategic Deterrent EMD	
Integrated with the Minuteman III program office within the ICBM Systems Directorate, the Sentinel program will manage the complex transition between systems. This includes overseeing contractor development of essential support equipment, data systems, flight test infrastructure, and training systems. Throughout this process, the program prioritizes risk mitigation and ensures adherence to strict nuclear surety, certification, and vulnerability assessment protocols. Key technical areas include: Flight Systems (missile boosters, re-entry vehicle, and guidance systems); Command & Launch (secure and reliable communication and control systems); Infrastructure & Deployment (training, maintenance, and launch infrastructure; fielding and system deployment); Software (robust and resilient weapon system software ecosystem); Systems Engineering (overall system design, cybersecurity, and modular architectures); and Test (developmental, operational, and live fire testing for safety and effectiveness). Effective program management will leverage digital engineering capabilities, oversee program execution, and manage major contracts. The FY 2026 funding will continue execution of the prime contract and advance key Sentinel program activities. These include systems engineering, IT infrastructure, data management, and analytical capabilities necessary to deliver a flexible, integrated weapon system critical design. Resources will be allocated to modernize analytical environments and laboratories, establish a collaborative digital engineering ecosystem, and continue development of air vehicle equipment, command and launch systems, cybersecurity infrastructure, training systems, security architecture, transportation subsystems, specialized support equipment, and associated ground technologies. Software development, integration, modular architecture design, and product lifecycle management will also be refined, along with strengthening the certification strategy for nuclear surety, cybersecurity, and nuclear safety. Further development of test capabilities at Vandenberg Space Force Base and the Western Range, supporting both developmental and operational testing. The program will also continue development of capabilities to meet the requirement for dual-capable, air-based, secondary launch platform. 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 2024 9.538M was expended for civilian pay expenses in this program element, and in FY 2025 40.000M is forecasted for civilian pay expenses in this program element. This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0605238F I Ground Based Strategic Deterrent EMD				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	3,746.935	3,721.024	3,791.551	0.000	3,791.551	
Current President's Budget	4,327.250	2,011.024	2,647.563	0.000	2,647.563	
Total Adjustments	580.315	-1,710.000	-1,143.988	0.000	-1,143.988	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	200.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	530.742	0.000				
• SBIR/STTR Transfer	-150.427	0.000				
• Other Adjustments	0.000	-1,710.000	-1,143.988	0.000	-1,143.988	
Change Summary Explanation						
FY 2024 change summary includes the reprogramming (\$539.3M) of LGM-35A Sentinel Missile Procurement (MP, AF line 3) to RDT&E funding and the technical adjustment (\$7.65M) of LGM-35A Sentinel RDT&E to Aircraft Procurement (AP, AF Line 61) for the Secondary Launch Platform - Airborne (SLP-A) capability. Additionally, congressional increases for the GBSD construction and prototyping acceleration (\$100M) and GBSD Industrial Base Support (\$100M). \$151.3M was utilized for the AF SBIR and FFRDC withhold.						
FY 2025 decreased due to Year Long CR Adjustment: \$524M mark, \$494M program under-execution due to the program restructure, and \$692M service assumed termination liability						
FY 2026 funding decrease due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Flight Systems				1,564.348	634.255	900.574
Description: This effort centers on maturing the weapon flight system's design, technology, and lifecycle support capabilities for the aerospace vehicle equipment (AVE), which includes the missile boosters, re-entry vehicle, and missile guidance systems.						
FY 2025 Plans:						
FY2025 comprises key activities around the AVE, to include revising system specifications, advancing design maturity, and maturing critical components such as air vehicle equipment, support systems, cybersecurity, and nuclear surety architectures. It will also focus on refining and incorporating threat updates to the Mission Modeling Framework to assess weapon system performance against evolving threats.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions) Extensive trade studies, modeling, simulation, and analysis will be conducted to mature the weapon system, along with software development and hardware integration. Collaboration with government agencies will ensure seamless integration of critical assets, including cryptographic systems and Department of Energy technologies. This also prioritizes the integration of the ICBM Fuze Modernization and Mk21A Reentry Vehicle to the LGM-35A Sentinel weapon system. To support lifecycle sustainment, the effort will develop and test reentry vehicles, perform supportability analyses, and mature logistics data. Leveraging mission partners for technical analysis, subsystem testing, and maintaining a robust technical baseline. We will pursue initiatives to optimize scheduling, reduce risks, and minimize lifecycle costs. Additional priorities include establishing an adaptable industrial base, developing mission effectiveness capabilities, improving certification strategies, and developing comprehensive sustainment strategies for all system components. FY 2026 Plans: FY2026 continues to implement updated specifications, execute design reviews, and mature critical components like air vehicle equipment, support systems, cybersecurity, and nuclear surety architectures. It will continue refining the Mission Modeling Framework to assess performance against evolving threats. Ongoing efforts will mature the weapon system through trade studies, modeling, simulation, and analysis. Software development, hardware integration, and collaboration with government agencies will ensure seamless integration of cryptographic systems and Department of Energy technologies. This effort also prioritizes the integration of the ICBM Fuze Modernization and Mk21A Reentry Vehicle to the LGM-35A Sentinel weapon system. The effort will leverage mission partners to conduct in-depth technical analysis, subsystem testing, and maintain a strong technical baseline. It will pursue initiatives to optimize the schedule, reduce risks, and minimize lifecycle costs while incorporating evolving threat information and higher-fidelity designs into weapon system assessments. Continuing priorities include establishing an adaptable industrial base, developing mission effectiveness capabilities, improving certification strategies, and developing comprehensive sustainment strategies for all system components. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increases due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment. This follows a FY25 reduction due to the CR, restructure adjustment, and service-assumed termination risks, resulting in a temporary dip before returning to projected funding levels.		FY 2024	FY 2025	FY 2026
Title: Command & Launch		1,098.389	400.368	605.358

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: This effort includes the design, development, integration, test and certification of the Command & Launch (C&L) systems for the Sentinel weapon system to ensure a robust communications design, security, availability, reliability, and ability to hold targets at risk. FY 2025 Plans: FY2025 comprehensively develops a replacement flight system focused on command and launch capabilities. It encompasses developing and integrating mission equipment, software, and interfaces for the wing command center, including cryptographic systems and air/ground control equipment related to system survivability, monitoring, and launch. It also matures launch guidance control systems (including NC2, NC3, and launch execution), communications subsystems (hardline and RF), launch equipment, ground mechanical and actuation systems, ground power, signal distribution, and security systems. Furthermore, it includes planning and risk reduction for a dual-capable secondary launch system. The effort emphasizes refining hardware, software, security architecture, and software integration for command/launch, cybersecurity, operator and maintenance systems. It conducts trade studies, market research, and analyses to support development, risk reduction, and cost-saving initiatives. Effective systems engineering processes are employed to establish an Allocated Baseline, and supportability analysis is performed for logistics and sustainment. Finally, it emphasizes developing and maturing capability integration with the NC3 enterprise and nuclear command architecture and collaborating with the DoD and NSA on cryptographic assets. FY 2026 Plans: FY2026 will continue to prioritize the development of robust command and launch systems. This includes ongoing refinement of command-and-control mission equipment, the wing command center, and crucial cryptographic systems and interfaces. Development will continue on communications systems (hardware and software), air and ground hardware, and control equipment to ensure the survivability, monitoring, and successful launch of the replacement flight system. Command Launch will also continue to advance launch systems, including launch equipment, ground mechanical and actuation systems, ground power, signal distribution, and security systems, and essential interfaces at various command centers and launch silos. Ongoing efforts will focus on maturing command and launch capabilities, cybersecurity, and operator and maintenance systems, encompassing both hardware and software, security architecture, and ground technologies. Refinement of weapon system software, integration, architecture, and lifecycle management remains a priority. To support these objectives, this effort will conduct trade studies, market research, and analyses, pursuing initiatives to optimize the schedule and reduce lifecycle costs as it moves towards production. Rigorous systems engineering processes will continue to establish an Allocated Baseline. Finally, this effort will maintain its focus on maturing logistics and product support, as well as				

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
capability integration with the NC3 enterprise and nuclear command architecture, including collaboration with the DoD and NSA on cryptographic assets. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increases due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment. This follows a FY25 reduction due to the CR, restructure adjustment, and service-assumed termination risks, resulting in a temporary dip before returning to projected funding levels.				
Title: Infrastructure & Deployment Description: This effort focuses on planning, programming, and executing the Sentinel infrastructure development, integration of transition and deployment activities, resources, and timing of the weapon system deployment. FY 2025 Plans: FY2025 includes assessing existing infrastructure, replanning and executing construction strategies, and developing design and construction requirements for new weapon system infrastructure through trade studies, simulations, and testing. Key activities include contracting for utility corridor construction, pursuing the path for a launch silo prototype design, and planning for facilities at multiple Air & Space Force bases. It will ensure completion of facility interface requirements, oversee real estate acquisition, and execute critical environmental impact assessments. Finally, this effort will plan and mature capability integration with the NC3 Directorate, assess fielding requirements for the transition from MM III to the LGM-35A Sentinel, and conduct studies to optimize scheduling, reduce transition risks, and minimize lifecycle costs as the program advances towards production. FY 2026 Plans: FY2026 emphasizes the sustained development and modernization of infrastructure to support the weapon system's lifecycle. This includes continuing the construction of utility corridors, overseeing real estate acquisition, and pursuing paths for launch silo design and construction to inform acquisition strategies. It will also initiate standard designs for launch silos and Launch Centers, supporting both operational and test deployments. Planning and programming for facilities at key Air Force bases remain a priority. The effort will continue to execute critical government activities, including environmental impact assessments and agreements. Integration with the NC3 Directorate for future command and control capabilities will also continue to be developed and matured.		58.211	129.421	77.886

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Throughout this process, the effort will continue to assess fielding requirements and timelines for the transition from MM III to LGM-35A Sentinel, while pursuing initiatives to optimize scheduling, mitigate transition risks, and minimize lifecycle costs. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 decreases due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment.				
Title: Software Description: Software includes establishing and maintaining a robust and resilient software ecosystem by owning and managing the complete Sentinel software baseline, architecture, design, and modularity. This includes defining, controlling, and optimizing all digital interfaces, ensuring seamless integration and interoperability. FY 2025 Plans: FY2025 focuses on maturing the weapon system's software technology, ensuring robust cybersecurity, and developing comprehensive software sustainment strategies. A key priority is refining requirements and modular architectures through rigorous testing and analysis, as well as maturing weapon system software, integration processes, and lifecycle management. It will expand data ingestion capabilities to accommodate flight test data and support Model-Based Engineering approaches. The software effort will increase government support for sustaining the hardware and software technical baseline. It will develop and mature sustainment strategies for digital, software, and hardware components. It assesses software fielding requirements and timelines, in addition to software infrastructure needs for the transition from MM III to the LGM-35A Sentinel. It will assess the feasibility of leveraging existing government software resources and partnerships to maintain control of the technical baseline throughout EMD. FY 2026 Plans: FY2026 will continue to mature weapon system software, integration processes, and lifecycle management, while expanding data ingestion capabilities to support flight test analysis and Model-Based Engineering. This effort will continue government support for sustaining the hardware and software technical baseline. It will also continue to develop comprehensive software sustainment strategies for all system components, assess software fielding requirements and timelines for the transition from MM III to LGM-35A Sentinel, and leverage Model-Based Systems Engineering tools. It will continue to assess the feasibility of leveraging existing government software resources and partnerships to maintain control of the technical baseline. FY 2025 to FY 2026 Increase/Decrease Statement:		305.140	138.797	183.621

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2026 funding increases due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment. This follows a FY25 reduction due to the CR, restructure adjustment, and service-assumed termination risks, resulting in a temporary dip before returning to projected funding levels.				
Title: Systems Engineering Description: System Engineering will mature systems engineering, cybersecurity, and modular architectures through rigorous testing and analysis. Verification and validation of external interface management, systems architecture, modelling and simulation, and establishing a framework for weapon system effectivity reporting. FY 2025 Plans: FY2025 will mature the Sentinel specifications, architecture, and design through rigorous systems engineering to include modular architectures, external interface management, modeling and simulation, and testing. Collaboration with mission partners to ensure technical expertise and seamless integration of critical assets. Model-based systems engineering will be developed and utilized for efficient sustainment and supply chain management. Aligning system requirements with architectural documentation is key to this effort. Finally, it will finalize a Survivability Certification Plan, addressing nuclear survivability and hardening requirements. Specialty engineering expertise will be leveraged across various disciplines to ensure a secure, reliable, and sustainable weapon system, with a focus on proactive processes and program-wide collaboration. FY 2026 Plans: FY2026 continues to mature the Sentinel specifications, architecture, and design through rigorous systems engineering to include modular architectures, external interface management, modeling and simulation, and testing to ensure the appropriate level of maturity required for each technical review. Continued collaboration with mission partners to enhance capabilities, maintain technical expertise, and ensure seamless integration of critical assets. It will continue to improve certification processes, develop a common cryptographic device, and advance model-based systems engineering for efficient sustainment. Aligning system requirements and architectural documentation remains crucial. Efforts to finalize a comprehensive Survivability Certification Plan will continue, addressing nuclear survivability and hardening requirements. The effort will maintain its emphasis on leveraging specialty engineering expertise across all disciplines to deliver a		872.718	314.409	486.357

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions) secure, reliable, and sustainable weapon system. This will be achieved through proactive processes, program-wide collaboration, and a focus on quality, timeliness, and cost-effectiveness. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increases due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment. This follows a FY25 reduction due to the CR, restructure adjustment, and service-assumed termination risks, resulting in a temporary dip before returning to projected funding levels.		FY 2024	FY 2025	FY 2026
Title: Test Description: Test prioritizes developing, modernizing, and preparing robust test strategy and capabilities to support the weapon system throughout its entire lifecycle, encompassing risk reduction, developmental, operational, and live fire testing to satisfy test statutory and regulatory requirements. Informs Operational Safety, Suitability, and Effectiveness (OSS&E) determinations. FY 2025 Plans: FY2025 includes identifying and addressing capability gaps, analyzing existing test resources, and developing solutions for impact scoring systems. The test effort will prioritize establishing a Broad Ocean Area Terminal Area Scoring Test Capability (TASTC), developing specialized test sites for environmental testing, and modernizing instrumentation networks at key test ranges. Preparing and verifying test range and contractor facility readiness to support the flight test campaign is also crucial. Test will leverage digital engineering and modeling/simulation tools while continually improving information systems and IT infrastructure to ensure secure data management and collaboration. Additional priorities include strategic planning and provisioning for test activities, continuous development of the Test and Evaluation Master Plan and Live Fire Test and Evaluation Alternate Test Plan, and the evaluation and execution of risk reduction activities. The construction and outfitting of specialized labs and test facilities will also be prioritized. The test effort will execute a comprehensive Developmental Test program encompassing flight tests, cyber testing, environmental testing, and evaluation of modeling, simulation, and analysis products. Planning for testing of the secondary launch platform will also be a focus. This effort involves significant collaboration with key partner organizations such as Arnold Engineering and Development Complex, Air Force Operational Test & Evaluation Center, Joint Interoperability Test Command, and the Air Force Institute of Technology. FY 2026 Plans: FY2026 continues efforts on developing, modernizing, and expanding test capabilities for the weapon system across all stages of testing, including technical maturity, developmental, operational, and live fire test and evaluation. The emphasis continues on identifying and filling capability gaps, particularly for development of a host-site and logistics for the Broad Ocean Area Terminal Area Scoring Test Capability (BOA TASTC), specialized ground test sites, test facilities, and robust impact scoring systems particularly for high-sea-states and continued execution of associated operations. Modernization of instrumentation networks		244.081	132.771	163.855

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions) at key test ranges, such as Vandenberg Space Force Base, Reagan Test Site, and the Pacific Missile Range Facility, is crucial. The test effort will continue improving information systems and cybersecurity infrastructure to ensure seamless and secure data management and collaboration. Strategic planning, resource allocation, and risk reduction activities for ground and flight test activities remain a priority, along with the ongoing development of comprehensive ground test plans and the flight test strategy to include pad-launch and government-led test. It will continue to mature a collaborative test environment, leveraging the expertise of organizations like Air Force Research Lab, Arnold Engineering and Development Complex, Air Force Operational Test & Evaluation Center, Joint Interoperability Test Command, and the Air Force Institute of Technology. Construction, refining technical requirements, and outfitting specialized labs and test facilities will continue, ensuring the availability of resources. Aligning a robust Developmental Test program, encompassing flight tests, cyber testing, environmental testing, and an evaluation of modeling and simulation products, will be executed. Planning for future testing of a secondary and leveraging the industrial base to increase test throughput at specialized sites. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding increases due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment. This follows a FY25 reduction due to the CR, restructure adjustment, and service-assumed termination risks, resulting in a temporary dip before returning to projected funding levels.		FY 2024	FY 2025	FY 2026
Title: Government Support Description: Implement robust and efficient processes, governance, and capabilities to manage program execution and oversight, to include maturing emerging digital capabilities, providing program digital infrastructure, and managing major program contracts. FY 2025 Plans: FY2025 focuses on ensuring the program has the necessary manpower, technical expertise, management, physical security, IT infrastructure, and cybersecurity capabilities to successfully develop and acquire the weapon system. This includes managing and acquiring support from various program partners such as Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research Centers (UARC)s, corporations (to include the prime contractor) and other government activities to ensure the program has the correct mix of skills required to develop the weapon system and own the technical baseline in EMD. The effort will expand and update information systems, IT infrastructure, and cybersecurity networks to support highly classified activities and maintain connectivity with mission partners. It will enhance the DevSecOps environment and data transport capabilities across classified networks using cross-domain solutions. Finally, it will prioritize cloud network infrastructure improvements to increase reliability, availability, and security.		184.363	261.003	229.912

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force							Date: June 2025				
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)				R-1 Program Element (Number/Name) PE 0605238F I Ground Based Strategic Deterrent EMD							
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2024	FY 2025	FY 2026		
The effort will build and establish a digital industrial base for innovation around the Sentinel enterprise to maintain digital modularity and adaptability for the life cycle of the weapon system as well as to continue the digital transformation to support the LGM-35A Sentinel program. FY 2026 Plans: FY2026 continues to focus on ensuring the program has the necessary manpower, technical expertise, management, physical security, IT infrastructure, and cybersecurity capabilities to successfully develop and acquire the weapon system. This includes managing and acquiring support from various program partners such as Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research Centers (UARCs), corporations (to include the prime contractor) and other government activities to ensure the program has the correct mix of skills required to develop the weapon system and own the technical baseline in EMD. Government support will continue to expand and update information systems, IT infrastructure, and cybersecurity networks to support highly classified activities and maintain connectivity with mission partners. It will enhance the DevSecOps environment and data transport capabilities across classified networks using cross-domain solutions. Finally, it will prioritize cloud network infrastructure improvements to increase reliability, availability, and security. The effort will continue to build and establish a digital industrial base for innovation around the Sentinel enterprise to maintain digital modularity and adaptability for the life cycle of the weapon system as well as to continue the digital transformation to support the LGM-35A Sentinel program. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 funding decreases due to LGM-35A Sentinel program phasing tied to Nunn-McCurdy recertification and requirement refinement / reassessment.											
Accomplishments/Planned Programs Subtotals							4,327.250	2,011.024	2,647.563		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 04 PE 0605230F: Ground Based Strategic Deterrent	0.000	0.000	0.000	-	0.000	-	-	-	-	-	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605238F <i>I Ground Based Strategic Deterrent EMD</i>

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOO</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDTE 04 PE 0603851F: <i>Intercontinental Ballistic Missile - Dem/Val</i>	51.948	125.561	90.096	-	90.096	-	-	-	-	-	-
• RDTE 07 0101328F: <i>ICBM Reentry Vehicles</i>	452.306	392.423	259.605	-	259.605	-	-	-	-	-	-
• MPAF 01 Line Item MGBSD0: <i>Ground Based Strategic Deterrent</i>	0.000	0.000	0.000	-	0.000	-	-	-	-	-	-
• MPAF 01 MK21A0: <i>Mk21A Reentry Vehicle</i>	0.000	26.156	0.000	-	0.000	-	-	-	-	-	-
• MILCON PE 0101233F: <i>GBSD SQUADRONS</i>	198.040	770.000	202.000	-	202.000	-	-	-	-	-	-
• OPAF 03 WSC 834130: <i>AF Physical Security System</i>	4.172	5.689	5.119	-	5.119	-	-	-	-	-	-
• OPAF 04 845010: <i>Base Procured Equipment</i>	0.000	0.000	4.985	-	4.985	-	-	-	-	-	-
• APAF 05 0101233F: <i>N/A (8)</i>	0.000	5.216	0.000	-	0.000	-	-	-	-	-	-

Remarks

E. Acquisition Strategy

The Acquisition Decision Memorandum (ADM) dated July 8, 2024 recertified the LGM-35A Sentinel program to continue in accordance with Title 10, United States Code, Section 4376. The Milestone Decision Authority (MDA) rescinded the program's Milestone B approval and the original Acquisition Program Baseline approved on September 4, 2020. The Air Force shall restructure the LGM-35A Sentinel program prior to MDA approval of a new Milestone B and develop a modified acquisition strategy that reflects the restructured Sentinel program.

The objective of the LGM-35A Sentinel acquisition strategy is to deliver a full, integrated weapon system capability that meets Air Force Global Strike Command's Capability Development Document requirements. For the EMD phase of this strategy, the Program Office awarded an EMD contract in the 4th quarter of Fiscal Year 2020. The objectives of EMD are: 1) to deliver a low-risk, technologically mature, integrated weapon system baseline design; 2) develop flexible system architecture with options for future on-ramps and off-ramps to mitigate program risks; 3) embrace MBSE/digital engineering to streamline system development activities and timelines; 4) align contract incentives to mitigate schedule and performance risk; 5) utilize MBSE processes and tools to create schedule margin and accelerate surety, safety, cyber, and test activities for time certain delivery; 6) ensure government owns key interfaces and data rights; and 7) pursue "smart commonality" with U.S. Navy, U.S. Space Force, and Missile Defense Agency. The EMD phase includes an EMD Baseline Review, Critical Design Review, First Flight Test, Full Functional System Test, System Qualification/System Verification Review, Nuclear Certification, Developmental Test, Operational Test, and culminates with early production and weapon system

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605238F I Ground Based Strategic Deterrent EMD	
deployment. The program will also assess the cost and schedule risks associated with every requirement. The EMD contract includes five options for early production and deployment. The period of performance, to include the production and deployment options, is fourth quarter of Fiscal Year 2020 to the second quarter of Fiscal Year 2028. These efforts will ultimately extend the capabilities of the ground-based leg of the nuclear triad through 2075. LGM-35A Sentinel was authorized in the March 2023 (ADM) to procure test assets needed for Initial Operational Test and Evaluation and Operational Weapon System Article ground assets, utility corridors, and associated equipment to confirm functional weapons system performance in the EMD phase.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Deterrent EMD				Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
LGM-35A Sentinel EMD Contract	C/CPIF	Northrop Grumman Sys Corp : El Segundo, CA	2,873.383	3,490.819	Oct 2023	1,269.464	Oct 2024	1,690.987	Oct 2025	-		1,690.987	-	-	-
Subtotal			2,873.383	3,490.819		1,269.464		1,690.987		-		1,690.987	-	-	N/A
Remarks															
Prior to Fiscal Year 2023, funding for these efforts was included under Program 0605230F, Ground Based Strategic Deterrent.															
The current LGM-35A Sentinel EMD Contract total cost is anticipated to be \$13,293.563 million. While the Nunn-McCurdy process re-certified the program to continue, adjustments to the EMD contract will likely occur as a result of the refinement and reassessment of the program's requirements. Funding is split between programs 0605230F, Ground Based Strategic Deterrent and 0605238F, Ground Based Strategic Deterrent EMD.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Integration Support Contract	C/FFP	BAE, Inc. : Hill AFB, UT	118.480	179.694	Oct 2023	132.531	Oct 2024	170.279	Oct 2025	-		170.279	-	-	-
Naval Surface Warfare Center Crane Support	MIPR	Naval Surface Warfare Center Crane : Crane, IN	5.200	5.001	Nov 2023	4.700	Nov 2024	6.050	Nov 2025	-		6.050	-	-	-
Aerospace FFRDC Support	MIPR	Aerospace Corporation : El Segundo, CA	22.561	23.675	Nov 2023	25.110	Nov 2024	27.000	Nov 2025	-		27.000	-	-	-
MITRE FFRDC Support	MIPR	MITRE : Bedford, MA	16.216	17.317	Nov 2023	19.300	Nov 2024	22.500	Nov 2025	-		22.500	-	-	-
Carnegie Mellon Software Engineering Institute Support	MIPR	Carnegie Mellon : Pittsburgh, PA	3.267	3.850	Nov 2023	3.850	Nov 2024	5.529	Nov 2025	-		5.529	-	-	-
Sandia FFRDC Reentry Systems Analysis Support	MIPR	Sandia National Laboratories : Various	1.900	1.650	Oct 2023	1.687	Oct 2024	1.800	Oct 2025	-		1.800	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Det errent EMD				Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MIT Lincoln Labs FFRDC Reentry Systems Analysis Support	MIPR	MIT Lincoln Labs : Lexington, MA	1.760	1.730	Oct 2023	1.500	Oct 2024	1.800	Oct 2025	-		1.800	-	-	-
Nuclear Surety & Certification Support	MIPR	Various : Various	3.053	5.457	Nov 2023	7.807	Nov 2024	21.707	Nov 2025	-		21.707	-	-	-
Operations Research Analyst Support	C/FFP	Tecolote : Hill AFB, UT	7.911	6.842	Oct 2023	7.720	Oct 2024	10.100	Oct 2025	-		10.100	-	-	-
Common Cryptographic Equipment	MIPR	Sandia National Labs : Various	17.135	10.417	Nov 2023	19.518	Nov 2024	15.459	Nov 2025	-		15.459	-	-	-
Security Support	Various	Space Missile Defense : Herndon, VA	9.696	1.556	Dec 2023	2.400	Dec 2024	2.500	Dec 2025	-		2.500	-	-	-
LGM-35A Sentinel Direct Cite Civilian Pay	Various	US Gov Civilians : Hill AFB, UT	31.786	9.068	Oct 2023	40.000	Oct 2024	41.500	Oct 2025	-		41.500	-	-	-
NEPA Analysis Support	MIPR	Various : Various	16.873	36.736	Nov 2023	84.700	Nov 2024	97.900	Nov 2025	-		97.900	-	-	-
Reentry Vehicle Sustainment Support	C/CPAF	Lockheed Martin Corp : Bethesda, MD	2.282	2.392	Dec 2023	2.000	Dec 2024	3.000	Dec 2025	-		3.000	-	-	-
Sandia Integration Support	MIPR	Sandia National Labs : Various	2.550	3.700	Jan 2024	4.325	Jan 2025	6.000	Jan 2026	-		6.000	-	-	-
LGM-35A Sentinel Facility Execution Support	Various	Various : Various	3.707	3.091	Jan 2024	2.200	Jan 2025	3.000	Nov 2025	-		3.000	-	-	-
Space Dynamics Lab Support	C/CPFF	USU Space Dynamics Lab : Logan, UT	6.706	13.446	Nov 2023	14.741	Nov 2024	19.020	Nov 2025	-		19.020	-	-	-
NC3 Terrestrial Integration Support	Various	Various : Various	0.652	0.894	Nov 2023	0.000	Nov 2024	0.000	Nov 2025	-		0.000	-	-	-
Secondary Launch Platform - Airborne	MIPR	Naval Air Systems Command : Patuxent River, MD	0.227	0.121	Dec 2023	0.200	Dec 2024	1.000	Dec 2025	-		1.000	-	-	-
USACE Integrated Program Office	MIPR	US Army Corp of Engineers : Washington D.C.	2.527	3.919	Dec 2023	5.205	Nov 2024	7.006	Nov 2025	-		7.006	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Deterrent EMD				Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Industrial Base Single Board Computer	C/TBD	TBD : TBD	0.000	58.038	Aug 2024	0.000		32.290	Nov 2025	-		32.290	-	-	-
Department of Energy - Oakridge National Labs	MIPR	Oakridge National Labs : Washington D.C.	0.000	3.700	Apr 2024	3.000		3.525	Nov 2025	-		3.525	-	-	-
Industrial Base Analysis	C/FFP	McKinsey & Company, Inc. : Washington D.C	0.000	15.282	Jun 2024	0.000		0.000	Jan 2026	-		0.000	-	-	-
Operational Weapon System Article Utility Corridor	MIPR	Advanced Comm. Tech., Inc : Sheridan, WY	0.000	4.251	Dec 2023	0.190		0.190	Nov 2025	-		0.190	-	-	-
Joint Network of Engineering and Emerging Operations	MIPR	Huntington Ingalls Inds. : Newport News, VA	0.000	3.837	Jun 2024	4.560		6.000	Nov 2025	-		6.000	-	-	-
Joint Advanced Combat Computing for Enhanced Lethality	MIPR	Lawrence Livermore Lab. : Livermore, CA	0.000	2.370	Feb 2024	1.000		2.700	Nov 2025	-		2.700	-	-	-
Industrial Baseline Trade School Scholarships	MIPR	TBD : TBD	0.000	10.000	Jan 2025	0.000		0.000		-		0.000	-	-	-
Industrial Base Rad-Hard Analog to Digital Converter	MIPR	Missile Defense Agency : Fort Belvoir, VA	0.000	23.000	Apr 2025	0.000		0.000		-		0.000	-	-	-
Industrial Base Honeywell Plymouth Facility Upgrades	TBD	TBD : TBD	0.000	21.200	Jun 2025	0.000		0.000		-		0.000	-	-	-
Industrial Base Strategic Resonant Beam Accelerometer Laboratory	TBD	TBD : TBD	0.000	6.000	Jun 2025	0.000		0.000		-		0.000	-	-	-
Industrial Base Post Boost Altitude Control Module	TBD	TBD : TBD	0.000	34.907	Jun 2025	0.000		0.000		-		0.000	-	-	-
Industrial Base Electrical Discharge Machine	TBD	TBD : TBD	0.000	5.000	Jun 2025	0.000		0.000		-		0.000	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Deterrent EMD				Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
LGM-35A Sentinel Enterprise Support	C/Various	Various : Various	1.629	0.861	Dec 2023	0.898	Dec 2024	0.228	Nov 2025	-		0.228	-	-	-
Subtotal			276.118	519.002		389.142		508.083		-		508.083	-	-	N/A
Remarks															
Prior year's funding included under Program 0605230F, Ground Based Strategic Deterrent. LGM-35A Sentinel is spearheading the Owning The Technical Baseline (OTTB) approach for system acquisition. This approach utilizes additional support efforts that would typically be performed by a Prime Contractor thus increasing costs within Cost Category Items.															
Additional Items: - Industrial Baseline Trade School Scholarships - Industrial Base Rad-hard Analog to Digital Converter - Industrial Base Honeywell Plymouth Facility Upgrades - Industrial Base Strategic Resonant Beam Accelerometer Laboratory - Industrial Base Post Boost Altitude Control module - Industrial Base Electrical Discharge Machine															
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Johns Hopkins - Applied Physics Lab Support	MIPR	Johns Hopkins University-Applied Physics Lab : Laurel, MD	45.100	56.924	Oct 2023	51.620	Oct 2024	65.000	Oct 2025	-		65.000	-	-	-
Arnold Engineering Development Complex - Integrated Test Team	PO	Arnold Engineering Development Complex : Arnold AFB, TN	17.670	21.323	Oct 2023	31.152	Oct 2024	45.224	Oct 2025	-		45.224	-	-	-
Air Force Operational Test and Evaluation Center - Integrated Test Team	PO	Air Force Operational Test and Evaluation Center : Hill AFB, UT	2.563	3.011	Oct 2023	3.561	Oct 2024	5.000	Oct 2025	-		5.000	-	-	-
Missile & Intelligence Center - Integrated Threat	MIPR	DIA-Missile and Space Intelligence	6.135	6.480	Nov 2023	6.870	Nov 2024	7.200	Nov 2025	-		7.200	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Det errent EMD				Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Analysis and Simulation Environment		Center : Redstone Arsenal, AL													
National Air and Space Intelligence Center - Integrated Threat Analysis and Simulation Environment	MIPR	National Air and Space Intelligence Center : Fairborn, OH	0.750	0.000	Nov 2023	1.800	Nov 2024	2.100	Nov 2025	-		2.100	-	-	-
309th SMXG Software Engineering Support	PO	309th / 517th SWEG : Hill AFB, UT	22.535	23.800	Oct 2023	28.000	Oct 2024	41.820	Oct 2025	-		41.820	-	-	-
309th SMXG Nuclear Safety Cross Check Analysis	PO	309th / 516th SWES : Hill AFB, UT	16.000	1.246	Oct 2023	0.000	Oct 2024	0.000	Oct 2025	-		0.000	-	-	-
Silo Fly-out Modeling and Simulation	MIPR	Various : Various	5.500	1.250	Nov 2023	0.812	Nov 2024	2.500	Nov 2025	-		2.500	-	-	-
Launch Facility Site Assessment	MIPR	Various : Various	17.303	11.680	Mar 2024	1.140	Mar 2025	0.000	Oct 2025	-		0.000	-	-	-
Sandia Flight Test Vehicle Development	MIPR	Sandia National Labs : Various	30.000	38.478	Dec 2023	32.850	Dec 2024	32.000	Dec 2025	-		32.000	-	-	-
Naval Surface Warfare Center Corona Support	MIPR	Naval Surface Warfare Center : Corona, CA	1.255	1.294	Dec 2023	1.350	Dec 2024	1.391	Dec 2025	-		1.391	-	-	-
Combined Test Facility Support	MIPR	Various : Various	3.045	0.000	Nov 2023	2.448	Nov 2024	3.000	Nov 2025	-		3.000	-	-	-
Broad Ocean Area Terminal Area Scoring Test Capability	MIPR	Navy Strat. Sys. Programs : Various	6.522	7.401	Nov 2023	5.922	Nov 2024	17.392	Nov 2025	-		17.392	-	-	-
Little Mountain Test Facility Radiation Lab Upgrades	C/CPFF	The Boeing Company : Layton, UT	0.000	0.000	Nov 2023	0.000	Nov 2024	3.600	Nov 2025	-		3.600	-	-	-
Material Testing Collaboration	MIPR	Navy Strat. Sys. Programs : Washington, DC	0.500	2.000	Dec 2024	3.233	Dec 2025	4.200	Dec 2025	-		4.200	-	-	-
Test Range Support	Various	Various : Various	3.310	0.969	Dec 2023	1.014	Dec 2024	1.909	Dec 2025	-		1.909	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Deterrent EMD				Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Industrial Base Centrifuge	C/CPFF	Air Force Research Lab : Kirtland AFB, NM	0.000	4.800	Dec 2024	0.000		0.000		-		0.000	-	-	-
LGM-35A Sentinel Enterprise Test and Assessments	C/Various	Various : Various	1.855	1.440	Nov 2023	2.054	Nov 2024	5.068	Nov 2025	-		5.068	-	-	-
Subtotal			180.043	182.096		173.826		237.404		-		237.404	-	-	N/A
Remarks															
Prior year's funding included under Program 0605230F, Ground Based Strategic Deterrent.															
Additional Items:															
- Industrial Base Centrifuge															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
LGM-35A Sentinel Administrative Support	C/FFP	Delta Solutions, Inc. : Colorado Springs, CO	0.532	0.045	Nov 2023	0.000	Nov 2024	0.000	Nov 2025	-		0.000	-	-	-
LGM-35A Sentinel Enterprise Process Improvement Support	C/FFP	Booz Allen Hamilton : McLean, VA	14.589	16.078	Nov 2023	12.246	Nov 2024	19.100	Nov 2025	-		19.100	-	-	-
Hardware, Software, IT Resources	C/Various	Various : Various	27.493	34.658	Oct 2023	60.998	Oct 2024	71.380	Oct 2025	-		71.380	-	-	-
LGM-35A Sentinel DevSecOps, Software Factory, Cloud, & Infrastructure	Various	Various : Various	56.176	75.888	Nov 2023	90.589	Nov 2024	109.996	Nov 2025	-		109.996	-	-	-
Operating Location Support	Various	Various : Various	0.041	0.025	Jan 2024	0.000	Jan 2025	0.050	Jan 2026	-		0.050	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Det errent EMD				Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Government Product Lifecycle Management	MIPR	Seimens Government Tech. : Reston, VA	0.000	0.858	Nov 2023	3.875	Jan 2025	5.000	Jan 2026	-		5.000	-	-	-
Facility Quality Assurance Services -Non-Traditional MILCON	MIPR	USACE : Sacramento, CA	0.000	0.017	Nov 2023	0.000		0.000	Nov 2025	-		0.000	-	-	-
Technical Baseline Support	MIPR	Department of the Navy : Various	0.000	1.258	May 2024	0.000	Oct 2024	0.000	Oct 2025	-		0.000	-	-	-
Nuclear Material Management	C/CPAF	Not specified. : TBD	0.000	0.000		4.595	Jul 2025	0.000		-		0.000	-	-	-
Enterprise PMA	Various	Various : Various	6.248	6.506	Oct 2023	6.289	Oct 2024	5.563		-		5.563	-	-	-
Subtotal			105.079	135.333		178.592		211.089		-		211.089	-	-	N/A
Remarks															
Prior year's funding included under Program 0605230F, Ground Based Strategic Deterrent.															
Additional Items:															
-Nuclear Material Management															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			3,434.623	4,327.250		2,011.024		2,647.563		-		2,647.563	-	-	N/A
Remarks															
In FY23, GBSD program transitioned from Budget Activity 04 to Budget Activity 05 and EMD efforts transitioned to PE 0605238F, Ground Based Strategic Deterrent EMD, Project 655238, Ground Based Strategic Deterrent from PE 0605230F, Ground Based Strategic Deterrent.															
Prior year's funding included under Program 0605230F, Ground Based Strategic Deterrent, Total Cost \$5,278.651M															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 5						PE 0605238F / Ground Based Strategic Deterrent EMD						655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Sentinel (GBSD)																												
Nunn-McCurdy Recertification																												
Technology Maturation & Risk Reduction																												
System Requirements Review																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605238F / Ground Based Strategic Deterrent EMD	Project (Number/Name) 655238 / GROUND BASED STRATEGIC DETERRENT (GBSD)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Sentinel (GBSD)				
Nunn-McCurdy Recertification	4	2024	4	2024
Technology Maturation & Risk Reduction	4	2024	3	2027
System Requirements Review	3	2026	3	2026

Note
The program is currently restructuring per the July 2024 Nunn-McCurdy certification. The Milestone B (restructure) date reflects the current plan to finalize the restructure and set the new program baseline. As the program executes the restructure, the Air Force will update key program dates with intent to drive IOC/FOC earlier.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605296F / <i>Microelectronics Secure Enclave</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	104.990	0.000	104.990	-	-	-	-	-	-
650020: <i>Microelectronics Secure Enclave</i>	0.000	0.000	0.000	104.990	0.000	104.990	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0605296F, project 650020, Microelectronics Secure Enclave Execution, is a new start.

A. Mission Description and Budget Item Justification

In support of the Secretary of Defense's priority to rebuild the military through reviving the U.S. defense industrial base, the Microelectronics Secure Enclave (MSE) program office was established inside the Department of the Air Force to provide oversight and direction of the nation's investment in a secure state-of-the-art (SOTA) microelectronics advanced fabrication and packaging capability.

Per direction in the Commerce, Justice, Science and Related Agencies Appropriations Act, 2024, development of a Secure Enclave capability was funded via Federal Financial Assistance (FFA) through the Creating Helpful Incentives to Produce Semiconductors and Science Act (CHIPS Act) of 2022. As part of the FFA requirements, these funds may only be executed by the commercial activity to which they were awarded and may not be used to offset costs for U.S. Government oversight of their execution.

Therefore, this program element (PE) provides funding for program office support requirements, including civilian pay and contractor manpower, facilities and other direct costs incident to executing MSE scope of work. In addition, this funding will initiate pilot projects to design and produce SOTA microelectronics for earliest possible integration into critical weapon systems and will invest in sustained production output from the Secure Enclave to support the nation's most sensitive warfighting capabilities.

This PE includes necessary civilian pay expenses required to manage, execute, and deliver system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in PE 0207433F, 0702806F and 0901212F. In FY 2026, 3M is forecasted for civilian pay expenses in this PE.

Additional details may be provided through classified channels.

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025				
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0605296F I Microelectronics Secure Enclave						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.								
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total		
Previous President's Budget		0.000	0.000	0.000	0.000	0.000		
Current President's Budget		0.000	0.000	104.990	0.000	104.990		
Total Adjustments		0.000	0.000	104.990	0.000	104.990		
• Congressional General Reductions		0.000	0.000					
• Congressional Directed Reductions		0.000	0.000					
• Congressional Rescissions		0.000	0.000					
• Congressional Adds		0.000	0.000					
• Congressional Directed Transfers		0.000	0.000					
• Reprogrammings		0.000	0.000					
• SBIR/STTR Transfer		0.000	0.000					
• Other Adjustments		0.000	0.000	104.990	0.000	104.990		
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Microelectronics Secure Enclave Execution				0.000	0.000	104.990	0.000	104.990
Description: Funding for program office support requirements, including civilian pay and contractor manpower, facilities and other direct costs incident to executing MSE scope of work. In addition, this funding will initiate pilot projects to design and produce SOTA microelectronics for earliest possible integration into critical weapon systems and will invest in sustained production output from the Secure Enclave.								
FY 2025 Plans: N/A								
FY 2026 Base Plans: Microelectronics Secure Enclave program office support, pilot project initiation and investment in minimum production infrastructure costs to maintain continued manufacturing capacity.								
FY 2026 OOC Plans: N/A								
FY 2025 to FY 2026 Increase/Decrease Statement:								

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0605296F I Microelectronics Secure Enclave				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Funding increased due to program new start in FY26 to execute \$104.990M for Microelectronics Secure Enclave program office support, pilot project initiation and investment in minimum production infrastructure costs to maintain continued manufacturing capacity.						
Accomplishments/Planned Programs Subtotals		0.000	0.000	104.990	0.000	104.990
D. Other Program Funding Summary (\$ in Millions) N/A						
Remarks						
E. Acquisition Strategy Program initiation will include hosting a reverse industry day and post-event engagements with various industry and USG partners to inform potential Secure Enclave investment requirements and opportunities. Subsequent pilot project acquisition paths will be developed to support such investments and will culminate in a comprehensive program acquisition strategy subject to available resources in early FY26. A formal acquisition strategy will be developed and approved lead-time away from weapon system manufacturing needs.						

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605296F / Microelectronics Secure Enclave				Project (Number/Name) 650020 / Microelectronics Secure Enclave					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Not specified.	Various	TBD : TBD	-	-		-		104.990	Oct 2025	-		104.990	-	-	-
Subtotal			-	-		-		104.990		-		104.990	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		104.990		-		104.990	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0605296F / Microelectronics Secure Enclave					650020 / Microelectronics Secure Enclave			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Microelectronics Secure Enclave																												
Program Office Support																												
Pilot Projects																												
Production Capacity Investment and Integration																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605296F / <i>Microelectronics Secure Enclave</i>	Project (Number/Name) 650020 / <i>Microelectronics Secure Enclave</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Microelectronics Secure Enclave</i>				
Program Office Support	1	2026	4	2030
Pilot Projects	2	2026	4	2030
Production Capacity Investment and Integration	2	2026	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0102417F <i>I Over-the-Horizon Backscatter Radar</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	471.042	377.394	0.000	0.000	0.000	-	-	-	-	-	-
650010: <i>Ops Control Center HLD</i>	0.000	471.042	0.000	0.000	0.000	0.000	-	-	-	-	-	-
650011: <i>HLD - OTHR</i>	0.000	0.000	367.851	0.000	0.000	0.000	-	-	-	-	-	-
650012: <i>TACMOR Development</i>	0.000	0.000	9.543	0.000	0.000	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Efforts funded in this PE focus on development, testing, and fielding, of a long-range early detection capability for airborne and surface targets of interest. Each line of effort acquires and fields a land based, high-frequency (HF) ionospheric backscatter radar for over the horizon detection and tracking of airborne and surface targets over wide geographic areas. Fielding of this capability will enable detection, tracking and reporting of airborne and surface targets that may be obscured from conventional line of sight radar systems by the curvature of the earth. Specific lines of effort funded include, but are not limited to, Tactical Multi-Mission Over the Horizon Radar (TACMOR), Homeland Defense Over the Horizon Radar (HLD-OTHR) and support for a classified EUCOM requirement.

TACMOR capability is being developed for employment in the Republic of Palau (RoP) to provide enhanced Air Domain Awareness in the USINDOPACOM area of responsibility. TACMOR will be located in the RoP and operated by the United States in agreement with the RoP. Development, test and evaluation, and acquisition of the system and associated components will provide warfighters with the capability to close gaps in surveillance coverage in key regions of the Pacific area of interest to the United States and its Allies. The total cost of the TACMOR Middle Tier of Acquisition effort is 243.4 million, including RDT&E and procurement of prototype units. TACMOR is not fully funded across the Future Years Defense Program. The Department of the Air Force is assessing all options to address the funding shortfalls for MTA programs including additional funding in a future budget request, performance trades based on technical maturity, or transition to alternative pathways.

HLD-OTHR efforts focus on the development, testing, and fielding of capabilities to extend current NWS surveillance of long-range early warning for North America in response to emerging threats. The primary mission of the new HLD-OTHR systems will be to provide long-range sensor coverage of potential air and cruise missile threats to North America, with secondary and tertiary capability against complex targets of interest (i.e, High Altitude Balloons) and maritime surface vessels and additional tasking as required. The system will be comprised of four OTHR systems and an Operational Control Center. HLD-OTHR data will be distributed and integrated into existing air, missile and maritime defense early warning networks, as applicable. This project will continue to focus investments to enhance capability for the Air and Cruise Missile Defense of the Homeland mission.

The FY 2025 funding request was reduced by 1.647 million to account for the availability of prior year execution balances.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in PE 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY2023, 4.2M was expended for civilian pay expenses in this program element, and in FY2024, 4.3M is forecasted for civilian pay expenses in this program element.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0102417F I Over-the-Horizon Backscatter Radar				
FY26 PB \$132.067M funding and budget justification has been submitted in PE 0102417F, Budget Activity 07 due to a database error. DAF will internally correct this error prior to submission of the FY27 PB and all OTHR efforts will continue in this updated exhibit executing in Budget Activity 05. No Congressional action is requested to correct this technical error.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		471.042	377.394	0.000	0.000	0.000
Total Adjustments		471.042	377.394	0.000	0.000	0.000
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		471.042	377.394	0.000	0.000	0.000
Change Summary Explanation						
Department of the Air Force and or Congressional changes that have impacted FY24 & FY25 funding found in table B. Program Change Summary in this budget exhibit, can be found in the FY26 PB budget line-item R-1 #171 BA7 PE 0102417F.						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar				Project (Number/Name) 650010 / Ops Control Center HLD			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
650010: Ops Control Center HLD	0.000	471.042	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Efforts funded in this PE focus on development, testing, and fielding, of a long-range early detection capability for airborne and surface targets of interest. Each line of effort acquires and fields a land based, high-frequency (HF) ionospheric backscatter radar for over the horizon detection and tracking of airborne and surface targets over wide geographic areas. Fielding of this capability will enable detection, tracking and reporting of airborne and surface targets that may be obscured from conventional line of sight radar systems by the curvature of the earth.

HLD-OTHR efforts are focused on the development, testing, and fielding of capabilities to extend current NWS surveillance of long-range early warning for North America in response to emerging threats. The system was to be comprised of two OTHR systems and an Operational Control Center. HLD-OTHR data will be distributed and integrated into existing air, missile and maritime defense early warning networks, as applicable. This project will continue to focus investments to enhance capability for the Air and Cruise Missile Defense of the Homeland mission.

The programs intent is to design, develop, test and field advanced OTHR systems operating at levels of sensitivity that exceed current US OTHR systems in operation. Program activities include C2 interface design and integration, HF sensor and digital receiver technology advancement, ionospheric characterization research, remote sensor management capability development, and sensor data fusion research. HLD-OTHR data was to be distributed and integrated into existing integrated air and missile defense (IAMD) early warning networks, to include the emerging DAF Battle Network and Cloud Based C2 architectures as applicable.

In support of the Air and Cruise Missile Defense of the Homeland mission and NORAD/USNORTHCOM Defense of North America mission, the project will continue to focus investments to enhance capability for Over-the-Horizon Radars. HLD OTHR will continue executing experimental efforts with the DoD science and technology community to characterize ionospheric conditions in the CONUS.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in PE 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Homeland Defense OTHR Development	471.042	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0102417F / <i>Over-the-Horizon Backscatter Radar</i>	Project (Number/Name) 650010 / <i>Ops Control Center HLD</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Description: HLD-OTHR development focuses on radar system design, development, manufacture and acquisition of hardware and software for the Transmit and Receive Sites. Development of modeling and simulation tools, studies, as well as analyses to inform systems engineering, early developmental test activities, and warfighter concepts of employment. Modeling will validate performance characteristics and metrics unique to NORAD/USNORTHCOM mission. In addition, FFRDCs and service labs will develop a system-of-systems design to inform a Government Reference Architecture (GRA) to be used as an authoritative source of truth. FY 2025 Plans: -Continue ionospheric model development and improvements to predict system performance -Continue system design, supply chain market research -Install, checkout, and operate experimentation study with DoD S&T community -Utilize experimentation study results and ionospheric model development to inform predicted performance metrics -Full set of planned activities are held at a higher level FY 2026 Plans: -Continue ionospheric model development and improvements to predict system performance -Continue system design, supply chain market research -Install, checkout, and operate experimentation study with DoD S&T community -Utilize experimentation study results and ionospheric model development to inform predicted performance metrics -Full set of planned activities are held at a higher level FY 2025 to FY 2026 Increase/Decrease Statement: The FY26 PB requested 70.6M is captured in the BA7 PE 0102417F at R-1 Row #171 and the decrease reflects an alternative development and fielding strategy for the program and can be found in that exhibit for additional information.			
Accomplishments/Planned Programs Subtotals		471.042	0.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
HLD-OTHR is executed by PEO Digital. The program is anticipated to be a pre-Milestone C, Major Capability Acquisition implementing an evolutionary capability development approach. Updated acquisition strategy specific to the FY26 PB can found at BA7 PE 0102417F, R-1 Row #171.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar						Project (Number/Name) 650010 / Ops Control Center HLD			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
System integration and experimentation equipment development	TBD	AFLCMC/HBD : Hanscom, AFB, MA	-	47.199	Feb 2024	-		-		-		-	-	-	-
Manufacture and acquisition of hardware components for HLD - OTHR Transmit and Receive sites.	TBD	AFLCMC/HBD : Hanscom, AFB, MA	-	360.143	Jan 2024	-		-		-		-	-	-	-
Modeling/Simulation and ionospheric characterization activities and performance assessments.	TBD	AFLCMC/HBD : Hanscom, AFB, MA	-	15.500	Jan 2024	-		-		-		-	-	-	-
Operational Control Center development and Battle Control Center Integration.	TBD	AFLCMC/HBD : Hanscom, AFB, MA	-	22.200	Jan 2024	-		-		-		-	-	-	-
Subtotal			-	445.042		-		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Travel	Various	AFLCMC/HBD : Hanscom, AFB, MA	-	2.000	Nov 2023	-		-		-		-	-	-	-
Subtotal			-	2.000		-		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Integration, Validation and Verification	TBD	AFLCMC/HBD : Hanscom, AFB, MA	-	10.000	May 2024	-		-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar						Project (Number/Name) 650010 / Ops Control Center HLD					
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Subtotal			-	10.000		-		-		-		-	-	-	N/A		
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Systems Engineering and Program Management Support	Various	AFLCMC/HBD : Hanscom, AFB, MA	-	14.000	Nov 2023	-		-		-		-	-	-	-		
Subtotal			-	14.000		-		-		-		-	-	-	N/A		
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	471.042		-		-		-		-	-	-	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar						Project (Number/Name) 650010 / Ops Control Center HLD			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
HLD OTHR																												
Initial deployment of sub-scale OTHR system in operationally relevant location for northern ionosphere data collection and analyses																												
Continue ionospheric model development and improvements to predict system performance																												
Continue bi-national (USA, CAN) program planning activities																												
Full set of activities held at a higher classification																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar	Project (Number/Name) 650010 / Ops Control Center HLD

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
HLD OTHR				
Initial deployment of sub-scale OTHR system in operationally relevant location for northern ionosphere data collection and analyses	2	2024	4	2026
Continue ionospheric model development and improvements to predict system performance	1	2024	4	2026
Continue bi-national (USA, CAN) program planning activities	1	2024	4	2026
Full set of activities held at a higher classification	4	2024	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar				Project (Number/Name) 650011 / HLD - OTHR			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
650011: HLD - OTHR	0.000	0.000	367.851	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

HLD-OTHR efforts focus on the development of a capability to extend current NWS surveillance to long range early warning for North America in response to emerging threats. The intent of the program is to design, develop, test and field advanced 6th generation OTHR systems operating at levels of transmit power and receiver sensitivity that should exceed current OTHR systems in operation. Program activities include C2 interface design and integration, HF sensor and digital receiver technology advancement, ionospheric characterization research, remote sensor management capability development, and sensor data fusion research. HLD-OTHR data will be distributed and integrated into existing integrated air and missile defense (IAMD) early warning networks, to include the emerging DAF Battle Network and Cloud Based C2 architectures as applicable.

The emphasis of the work performed in this program are to evaluate and develop improvements to the OTHR sensors tracking algorithms to increase probability of detection of high-altitude air vehicles such as stratospheric balloons and other unidentified aerial phenomena. Fielding involves land-based installation of Transmit and Receive site arrays for bi-static operations. Additional development will include the establishment of an initial Operations Control Center (OCC) capability and associated Command and Control Battle Management to enable the dissemination of track data and other targets of interest for Air and Cruise Missile Defense of the Homeland (ACMD-H) air domain awareness requirements.

Program Element will also be utilized to fund any emerging or urgent joint operational OTHR needs as required.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY24 4.2M was expended for civilian pay expenses in this program element, and in FY25 4.3M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Homeland Defense Over the Horizon Radar Development	-	367.851	-
Description: HLD-OTHR development focuses on radar system design, development, manufacture and acquisition of hardware and software for the Transmit and Receive Sites. The program will initiate focused studies to evaluate OTHR performance in the most stressing environmental conditions and conduct performance assessment against a variety of targets. Development			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0102417F / <i>Over-the-Horizon Backscatter Radar</i>	Project (Number/Name) 650011 / <i>HLD - OTHR</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
of modeling and simulation tools, studies, and analyses to inform systems engineering, early developmental test activities. In addition, execution of risk reduction efforts for the development of advanced radar receivers as well as system integration design into the IAMD battle control system enterprise will be used to develop system requirements and technical specifications to inform Command and Control and Operation Control Center system acquisition. <i>FY 2025 Plans:</i> - Will continue site-specific electromagnetic interference and ionospheric characterization work and begin adjusting mission system software to incorporate site-specific characterization work. - Will continue OTHR track data software interface and integration activities into existing Battle Control Centers/C2 nodes - Will continue manufacturing and acquisition of Rx & Tx antennas, radar subcomponents, associated infrastructure, and material components necessary to support initial installation and developmental testing as sites becomes available - Will begin installation of System 1 & 2 sounder and transponder subsystems - Will begin collecting northern ionosphere data for analyses, ionospheric model development, and tailoring of mission system software for US operational locations - Will begin C2 subsystem software development — adaptation of existing software baseline for US-specific mission - Will begin system development and build of main sub-systems and components by the manufacturer - Will begin sub-system and component test and checkout prior to ship and install at radar sites <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> The FY26 PB requested 70.6M is captured in the BA7 PE 0102417F at R-1 Row #171 and the decrease reflects an alternative development and fielding strategy for the program and can be found in that exhibit for additional information.			
Accomplishments/Planned Programs Subtotals		-	367.851
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
The current FY26 PB Other Program funding information can be viewed in the BA7 PE 0102417F at R-1 Row #171.			
D. Acquisition Strategy			
HLD-OTHR is executed by PEO Digital. The program is anticipated to be a pre-Milestone C, Major Capability Acquisition implementing an evolutionary capability development approach. Updated acquisition strategy specific to the FY26 PB can found at BA7 PE 0102417F, R-1 Row #171.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar				Project (Number/Name) 650011 / HLD - OTHR					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Manufacture and acquisition of hardware components for HLD - OTHR Transmit and Receive sites.	TBD	AFLCMC/HBD : Hanscom, AFB, MA	-	-		307.249	Jan 2025	-		-		-	-	-	-
Modeling/Simulation and ionospheric characterization activities.	C/CPAF	AFLCMC/HBD : Hanscom, AFB, MA	-	-		10.100	Jan 2025	-		-		-	-	-	-
Operational Control Center development and Battle Control Center Integration.	C/CPAF	AFLCMC/HBD : Hanscom, AFB, MA	-	-		30.240	Jan 2025	-		-		-	-	-	-
Subtotal			-	-		347.589		-		-		-	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Travel	C/CPAF	AFLCMC/HBD : Hanscom, AFB, MA	-	-		1.962	Nov 2024	-		-		-	-	-	-
Subtotal			-	-		1.962		-		-		-	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test Support	C/CPAF	46th Test Squadron : Eglin AFB, FL	-	-		2.800	Feb 2025	-		-		-	-	-	-
Subtotal			-	-		2.800		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar						Project (Number/Name) 650011 / HLD - OTHR			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Systems Engineering and Program Management Office Support	C/CPAF	AFLCMC/HBD : Hanscom AFB, MA	-	-		15.500	Nov 2024	-		-		-	-	-	-
Subtotal			-	-		15.500		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		367.851		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar						Project (Number/Name) 650011 / HLD - OTHR			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
HLD OTHR																												
Model Based Systems Engineering Siting, ionospheric, modeling & simulation analyses																												
Component and material purchases, prototype antenna fabrication, and delivery																												
Operational Control Center Development																												
Integration, Verification, and Validation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar	Project (Number/Name) 650011 / HLD - OTHR

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
HLD OTHR				
Model Based Systems Engineering Siting, ionospheric, modeling & simulation analyses	1	2024	4	2025
Component and material purchases, prototype antenna fabrication, and delivery	2	2024	2	2026
Operational Control Center Development	2	2024	2	2027
Integration, Verification, and Validation	3	2024	2	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar				Project (Number/Name) 650012 / TACMOR Development			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
650012: TACMOR Development	0.000	0.000	9.543	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

TACMOR capability is being developed for employment in the Republic of Palau to provide enhanced Air Domain Awareness in the USINDOPACOM area of responsibility. TACMOR will be operated by the United States and located in the Republic of Palau, with the agreement of the government of Palau. Development, test and evaluation, and acquisition of the system and associated components will provide warfighters with the capability to close gaps in surveillance coverage in key regions of the Pacific area of interest to the United States and our Allies.

TACMOR radar system development, integration and test activities have been delayed from FY22 - 24 but the DAF has been able to. TACMOR efforts funded in this Program Element will include but are not limited to: A Transmit site consisting of fourteen elements and high-power amplifiers transmitting High Frequency [HF] Skywave Over-The-Horizon Radar [OTHR] waveforms. The transmit site will also consists of a HF vertical sounder antenna and a HF backscatter sounder providing ionosphere environmental information for optimizing frequency selection. Also includes a Receive site consisting of 128 dual-monopole antenna elements receiving the over-the-horizon reflected energy from the transmit site. The receive site also contains the secure facilities for signal processing of the received data and real-time target extraction information.

This effort will also fund the communications infrastructure necessary to enable the data flow from the Transmit and Receive sites to an off-site operations control center. The operations control center plans and executes missions in support of the Combatant Command [CCMD] and provides real-time, target tracking information to all-source information fusion and dissemination systems. TACMOR data will also be accessible to and exploited by the National Air and Space Intelligence Center [NASIC] for detailed, post-event analysis.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY2024 0 was expended for civilian pay expenses in this program element, and in FY2025 0 is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: TACMOR Development	-	9.543	-
Description: Will establish initial TACMOR prototype transition and development activities necessary to accept post production readiness system components and sub-components. Program re-phased to align with military construction schedule and site availability.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0102417F / <i>Over-the-Horizon Backscatter Radar</i>	Project (Number/Name) 650012 / <i>TACMOR Development</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
<u>FY 2025 Plans:</u> - Will establish initial contract for prototype development of the radar system and sub-system components - Will deliver network services (terrestrial and SATCOM backup) infrastructure including management, on-island communications, off-island communications, and an integration facility to be used to ensure consistent interfaces and end-to-end service delivery is available once the radar is in place. <u>FY 2025 to FY 2026 Increase/Decrease Statement:</u> The FY26 PB requested \$132.067M is captured in the BA7 PE 0102417F at R-1 Row #171 and the decrease reflects an alternative development and fielding strategy for the program and can be found in that exhibit for additional information.			
Accomplishments/Planned Programs Subtotals		-	9.543
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
The current FY26 PB Other Program funding information can be viewed in the BA7 PE 0102417F at R-1 Row #171.			
D. Acquisition Strategy			
HLD-OTHR is executed by PEO Digital. The program is anticipated to be a pre-Milestone C, Major Capability Acquisition implementing an evolutionary capability development approach. Updated acquisition strategy specific to the FY26 PB can found at BA7 PE 0102417F, R-1 Row #171.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar						Project (Number/Name) 650012 / TACMOR Development					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Component and material purchases, prototype antenna fabrication; Wide Area Communications network services	MIPR	AFLCMC/HBG : Robins AFB, GA	-	-		8.943	Jan 2025	-		-		-	-	-	-		
Subtotal			-	-		8.943		-		-		-	-	-	N/A		
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Travel	C/CPAF	AFLCMC/HBG : Robins AFB, GA	-	-		0.300	Nov 2024	-		-		-	-	-	-		
Subtotal			-	-		0.300		-		-		-	-	-	N/A		
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Systems Engineering and Program Office Management	C/CPAF	AFLCMC/HBG : Robins AFB, GA	-	-		0.300	Nov 2024	-		-		-	-	-	-		
Subtotal			-	-		0.300		-		-		-	-	-	N/A		
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	-		9.543		-		-		-	-	-	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 5					PE 0102417F / Over-the-Horizon Backscatter Radar					650012 / TACMOR Development									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
TACMOR Development																												
Communication infrastructure development																												
System Integration Lab development																												
Network services delivery, communication on/off-island communications																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar	Project (Number/Name) 650012 / TACMOR Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
TACMOR Development				
Communication infrastructure development	1	2024	4	2025
System Integration Lab development	1	2024	4	2025
Network services delivery, communication on/ off-island communications	1	2025	1	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0207039F I Cognitive Electromagnetic Warfare							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	44.267	0.000	44.267	-	-	-	-	-	-
650099: Cognitive Electronic Warfare	0.000	0.000	0.000	44.267	0.000	44.267	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0207039F, project 650099, EA Application Pipeline, is a new start.
This program, BA 5, PE 0207039F, project 650099, Modular EA, is a new start.

In FY 2026, PE 060427F, Electronic Warfare Development, Project 653891, Adv Infrared Counter Measures (Aircm) efforts were transferred to PE 020739F, Cognitive Electronic Warfare, Project 650099, Cognitive Electronic Warfare.

A. Mission Description and Budget Item Justification

Cognitive Electromagnetic Warfare is an Air Force capability to analyze adversaries' use of the electromagnetic spectrum (EMS), make real-time decisions assisted by machine learning/artificial intelligence, preform effective electromagnetic attack (EA), and share EA techniques and identification/targeting criteria to the joint warfighting force.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 060531F, 0605833F, 0605898F, 0606398F.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0207039F I Cognitive Electromagnetic Warfare				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	0.000	0.000	0.000	0.000	0.000	
Current President's Budget	0.000	0.000	44.267	0.000	44.267	
Total Adjustments	0.000	0.000	44.267	0.000	44.267	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	44.267	0.000	44.267	
Change Summary Explanation In FY26, this PE transitioned from 0604270F Electronic Warfare Development, BPAC 653891.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Analysis of Alternatives				0.000	0.000	0.367
Description: Perform assessments and analyses for an Air Force capability to analyze adversaries' use of the electromagnetic spectrum (EMS), make real-time decisions assisted by machine learning/artificial intelligence, preform effective electromagnetic attack (EA), and share EA techniques and identification/targeting criteria to the joint warfighting force.						
FY 2025 Plans: In FY26, this PE transitioned from 0604270F Electronic Warfare Development, BPAC 653891.						
FY 2026 Plans: Develop, evaluate, and demonstrate advanced algorithms and modeling and sim tools for testing of Artificial Intelligence/Machine Language applications and the transport mechanisms between nodes.						
FY 2025 to FY 2026 Increase/Decrease Statement: In FY26, this PE transitioned from within 0604270F Electronic Warfare Development, BPAC 653891.						
Title: EA Application Pipeline				-	0.000	39.700
Description: Perform assessments and analyses for future open architecture Electromagnetic Attack (EA) capabilities and develop the pipeline to quickly transition those applications from lab to operational systems.						
FY 2025 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0207039F <i>I Cognitive Electromagnetic Warfare</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
N/A FY 2026 Plans: Develop an open architecture enterprise to run multiple EA applications accessing Cog EW AI/ML integration efforts to develop, distribute, and execute non-kinetic techniques. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase to continue development of promising collaborative AI/ML applications within the Cog EW enterprise.				
Title: Modular EA Description: Developing modular Electromagnetic Attack pods for multiple diverse platforms. FY 2025 Plans: N/A FY 2026 Plans: Concept development for modularizing current aircraft-mounted Electromagnetic Attack (EA) capabilities into smaller pod-mounted EA systems for use on unmanned platforms FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase to modularize current aircraft-mounted EA systems into a pod-mounted and internal versions for employment on current and future unmanned systems.		-	0.000	4.200
Accomplishments/Planned Programs Subtotals		0.000	0.000	44.267
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy In FY26 Cognitive EW will continue Analysis of Alternative preparing for the transition to a program of record in FY28, while continuing development and collaboration with other promising AI/ML program efforts. The App Pipeline and Modular EA Payload efforts will continue development of operational capabilities for eventual fielding.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207039F / Cognitive Electromagnetic Warfare						Project (Number/Name) 650099 / Cognitive Electronic Warfare			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
AoA	TBD	Not specified. : TBD	-	-		-		0.367	Mar 2026	-		0.367	-	-	-
EW App Pipeline	TBD	Not specified. : TBD	-	-		-		38.200		-		38.200	-	-	-
Modular EA	TBD	Not specified. : TBD	-	-		-		4.200		-		4.200	-	-	-
Subtotal			-	-		-		42.767		-		42.767	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
PMA	TBD	Not specified. : TBD	-	-		-		1.500		-		1.500	-	-	-
Subtotal			-	-		-		1.500		-		1.500	-	-	N/A
Remarks															
PMA: Other government costs (A&AS, travel, and contractor support)															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		44.267		-		44.267	-	-	N/A
Remarks															
In FY 2026, PE 060427F, Electronic Warfare Development, Project 653891, Adv Infrared Counter Measures (Aircm) efforts were transferred to PE 020739F, Cognitive Electronic Warfare, Project 650099, Cognitive Electronic Warfare.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity										R-1 Program Element (Number/Name)									
3600 / 5										PE 0207039F / Cognitive Electromagnetic Warfare									
										Project (Number/Name)									
										650099 / Cognitive Electronic Warfare									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
AoA																												
Analysis																												
EW App Pipeline																												
Development																												
Modular EA																												
Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207039F / Cognitive Electromagnetic Warfare	Project (Number/Name) 650099 / Cognitive Electronic Warfare	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AoA				
Analysis	1	2026	4	2026
EW App Pipeline				
Development	1	2026	4	2030
Modular EA				
Development	1	2026	4	2030

Note
In FY 2026, PE 060427F, Electronic Warfare Development, Project 653891, Adv Infrared Counter Measures (Aircm) efforts were transferred to PE 020739F, Cognitive Electronic Warfare, Project 650099, Cognitive Electronic Warfare.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0207110F / F-47

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	2,579.362	0.000	2,579.362	-	-	-	-	-	-
656009: F-47	0.000	0.000	0.000	2,579.362	0.000	2,579.362	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

F-47 PE 0207110F Project 656009 transitioned from BA 4 into BA 5 as part of entry into Engineering and Manufacturing Development (EMD) and the EMD contract award.

A. Mission Description and Budget Item Justification

F-47 enables Air Superiority for the Joint Force in the most challenging operational environments. Key F-47 attributes include enhancements to survivability, lethality, persistence, crewed/uncrewed teaming and interoperability across a range of military operations. Program activities include the employment of digital acquisitions through the application of digital engineering, agile software development, open systems architectures and digital systems infrastructure as well as the design, build, and test of full weapon systems with supporting elements. Funding provides for operational concept exploration, technology studies, multi-domain integration assessments, operational and system architecture development, maturation/risk reduction, prototyping, and Engineering and Manufacturing Development (EMD) of F-47 and related technologies. These technologies include autonomy, weapon systems, mission systems, government referenced architectures for standards and interfaces, terrestrial systems, training, product support, integrated system concept development and demonstration, as well as activities for full weapon system design, build, test, and program management support. Program management support costs include, but are not limited to, contractor support services, civilian pay, supplies, and facility related expenses. F-47 technologies are available to other DoD systems based on emerging threats, AF priorities, and development capacity.

The FY 2026 request for F-47 includes 2,579,362 thousand of discretionary and 900,000 thousand of mandatory (reconciliation) for a total of 3,479,632 thousand. The mandatory funds address Air Superiority in FY 2026. Further information for this reconciliation request is provided in Section 20007 (Air Superiority) of the Reconciliation Exhibit.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0207110F I F-47				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	0.000	0.000	0.000	0.000	0.000	
Current President's Budget	0.000	0.000	2,579.362	0.000	2,579.362	
Total Adjustments	0.000	0.000	2,579.362	0.000	2,579.362	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	2,579.362	0.000	2,579.362	
Change Summary Explanation						
In FY 2026, 2,579.362 million funding increase in Project 656009 due to the transition of F-47 from BA 4 into BA 5 as part of entry into Engineering and Manufacturing Development (EMD) and the EMD contract award.						
The FY 2026 request for F-47 includes 2,579,362 thousand of discretionary and 900,000 thousand of mandatory (reconciliation) for a total of 3,479,632 thousand. The mandatory funds address Air Superiority in FY 2026. Further information for this reconciliation request is provided in Section 2007 (Air Superiority) of the Reconciliation Exhibit.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: F-47				-	0.000	2,579.362
Description: The 2030+ Air Dominance (AD) candidate concepts consist of operational analyses, threat studies, technology candidate assessments and prototyping to identify operational concepts and technologies that improve persistence, survivability, lethality, connectivity, interoperability and affordability in 2030 and beyond. These efforts will provide for contractors to conduct analyses, identify technology candidates and perform concept refinement. Studies are required to develop operational/system architectures to include family of systems and spectral dominance platforms. In addition, technical risk reduction activities will be performed to include development, integration, test and building demonstrative prototypes.						
The 2030+ AD working groups methodically assessed candidate concepts using USAF directives and guidance that informed the F-47 Analysis of Alternatives (AoA). Ongoing studies refine system concepts and operational/system architectures incorporating family of systems and spectral dominance platforms that may be required to inform and support strategic choices. In addition, technical risk reduction studies utilizing preliminary data from AD concept development have informed strategic USAF						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0207110F / F-47			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
experimentation and prototyping efforts. Finally, technical overviews were presented to the Air Force - Scientific Advisory Board (AF-SAB) and other senior leaders. FY 2025 Plans: In FY 2025 Project 646007 "F-47" was transferred to PE 0207110F, Project 656009. FY 2025 plans can be found under PE 0207110F, Project 646007. FY 2026 Plans: Engineering and Manufacturing Development (EMD) activities will continue to include development, integration, build, and test of F-47 aircraft. Other program activities include the pursuit of open architecture solutions and the design, build, and test of components and full weapon systems. The F-47 program will continue to conduct analyses, identify technology candidates, perform concept refinements, and studies required to develop operational/system architectures to include family of systems and spectral dominance platforms. FY 2025 to FY 2026 Increase/Decrease Statement: In FY 2026 Project 646007 "F-47" was transferred to PE 0207110F, Project 656009. In FY2026 F-47 program funding increased due to entering Engineering and Manufacturing Development phase of the program and recent contract award.				
Accomplishments/Planned Programs Subtotals		-	0.000	2,579.362
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy The Next Generation Air Dominance acquisition strategy is based on a top-down, multi-domain capabilities development planning and oversight framework. Cross-functional teams will conduct analysis, demonstrations, and experiments to quantify the operational value of alternative concepts and technologies to provide solutions to current and future air superiority capability gaps. Additional details on the acquisition strategy cannot be provided at this classification level.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207110F / F-47				Project (Number/Name) 656009 / F-47					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
F-47 Development Efforts	Various	Various : Various	-	-		-		2,467.362		-		2,467.362	-	-	-
Subtotal			-	-		-		2,467.362		-		2,467.362	-	-	N/A
Remarks															
Contract specifics are sensitive and will not be provided in this document.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
F-47 Acquisition Support	Various	Various : Various	-	-		-		112.000		-		112.000	-	-	-
Subtotal			-	-		-		112.000		-		112.000	-	-	N/A
Remarks															
F-47 Acquisition Support includes but is not limited to A&AS, civilian pay, supplies, and facility related expenses.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		2,579.362		-		2,579.362	-	-	N/A
Remarks															
Details of contract data are not shown because of the level of security classification.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity								R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 5								PE 0207110F / F-47						656009 / F-47			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
F-47																												
Engineering and Manufacturing Development																												
FY26 Strategic Planning Choices Presented																												
FY27 Strategic Planning Choices Presented																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207110F / F-47	Project (Number/Name) 656009 / F-47

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
F-47				
Engineering and Manufacturing Development	2	2025	4	2030
FY26 Strategic Planning Choices Presented	1	2025	1	2025
FY27 Strategic Planning Choices Presented	1	2026	1	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0207171F I F-15 EPAWSS							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	12.975	0.000	0.000	0.000	0.000	-	-	-	-	-	-
657108: EPAWSS DEVELOPMENT	0.000	12.975	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 485												
A. Mission Description and Budget Item Justification												
The legacy F-15 Tactical Electronic Warfare System (TEWS) is functionally obsolete. It uses 1970's analog technology to combat 1980s-era radar-based ground and air threats. In addition, this aging system is becoming more difficult and expensive to sustain. As a result, the Air Force is replacing TEWS with the F-15 Eagle Passive/Active Warning and Survivability System (EPAWSS). F-15 EPAWSS is an advanced digital electronic warfare system capable of detecting, identifying, locating, denying, degrading, disrupting, and defeating modern and emerging threat systems in contested airspace with dense radio-frequency (RF) background environments. F-15 EPAWSS will provide indication, type, and position of ground-based RF threats as well as the indication, type, and bearing of airborne threats with the situational awareness needed to avoid, engage, or negate the threat. It will also prevent RF threat systems from detecting or acquiring accurate targeting information to complicate and/or negate an enemy threat targeting solution. Finally, EPAWSS will counter RF and infrared threat systems at end-game via electronic countermeasures (jamming), chaff, and/or flares. This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, 0605898F, 0606398F. This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity				R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)				PE 0207171F I F-15 EPAWSS							
B. Program Change Summary (\$ in Millions)				FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total			
Previous President's Budget				13.982	0.000	0.000	0.000	0.000			
Current President's Budget				12.975	0.000	0.000	0.000	0.000			
Total Adjustments				-1.007	0.000	0.000	0.000	0.000			
• Congressional General Reductions				0.000	0.000						
• Congressional Directed Reductions				0.000	0.000						
• Congressional Rescissions				0.000	0.000						
• Congressional Adds				0.000	0.000						
• Congressional Directed Transfers				0.000	0.000						
• Reprogrammings				0.000	0.000						
• SBIR/STTR Transfer				-0.472	0.000						
• Other Adjustments				-0.535	0.000	0.000	0.000	0.000			
Change Summary Explanation											
No significant changes											
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2024	FY 2025	FY 2026		
Title: Eagle Passive/Active Warning Survivability System (EPAWSS)							12.975	0.000	0.000		
Description: Planned replacement of the existing F-15 Tactical Electronic Warfare System (TEWS). Program plans to complete development activities with FY 2024 funding.											
FY 2025 Plans:											
N/A											
FY 2026 Plans:											
N/A											
FY 2025 to FY 2026 Increase/Decrease Statement:											
N/A											
Accomplishments/Planned Programs Subtotals							12.975	0.000	0.000		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• APAF 05 Line Item	233.339	227.342	252.607	-	252.607	-	-	-	-	-	-
F15EWS: Aircraft Modification											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)						R-1 Program Element (Number/Name) PE 0207171F I F-15 EPAWSS					
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• APAF 07 Line Item 000999: Aircraft Spares and Repair Parts	-	21.945	11.791	-	11.791	-	-	-	-	-	-
• APAF 07 000075: OTHER PRODUCTION CHARGES (OVERVIEW)	-	2.040	41.770	-	41.770	-	-	-	-	-	-
Remarks											
E. Acquisition Strategy											
F-15 EPAWSS replaces the existing radar warning receiver, internal countermeasure system and countermeasure dispenser system. The F-15 EPAWSS technical approach is to leverage mature and proven hardware to field a critically-needed capability as soon as possible. In addition, the program tailored the Milestone C production decision into two decisions: Decision Point #1 was approved in December 2020, constituting entry into the program's production phase, as well as initiating hardware procurement and modification line stand-up. Decision Point #2, approved in June 2022, allowed for hardware installation on operational F-15E aircraft and approved the full rate production (FRP) decision criteria. This tailoring provided the Milestone Decision Authority the ability to accelerate Initial Operational Capability by taking long-lead hardware procurement off the program critical path, reducing the schedule impact of kit lead times. Full Rate Production was approved in October 2024. The prime integrator for this program is Boeing, responsible for selecting its suppliers and accountable for full aircraft-level installed performance. The prime integrator has subcontractor support from BAE Systems, whose responsibilities include development of the onboard electronic warfare subsystem (hardware and software). The EPAWSS EMD contract initially employed a mix of contract types, the largest being Cost Plus Incentive Fee (CPIF) for development and testing. In 2020, the program office restructured the EMD contract to Firm Fixed Price.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207171F / F-15 EPAWSS						Project (Number/Name) 657108 / EPAWSS DEVELOPMENT			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
F-15 EPAWSS	Various	Various : Various	0.000	12.134	Jul 2025	-		-		-		-	-	-	-
Subtotal			0.000	12.134		-		-		-		-	-	-	N/A
Remarks The final line item reference to "various" contract methods and performing activity/location address other government costs for various EMD-specific hardware, equipment modification/installation/shipping efforts, special studies, travel and support personnel that are required to meet program objectives. The specific execution vehicles vary by effort.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority	Allot	Various : Various	0.000	0.463	Oct 2024	-		-		-		-	-	-	-
Subtotal			0.000	0.463		-		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Support Costs	Various	Various : Various	0.000	0.378	Nov 2024	-		-		-		-	-	-	-
Subtotal			0.000	0.378		-		-		-		-	-	-	N/A
Remarks The final line item reference to "various" contract methods and performing activity/location addresses other government costs for management support of EMD & T&E related activities, creation of special studies documentation, travel, and support personnel that are required to meet program objectives. The execution vehicles vary by effort.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	12.975		-		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force							Date: June 2025			
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0207171F / F-15 EPAWSS		Project (Number/Name) 657108 / EPAWSS DEVELOPMENT				
	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks FINANCIAL PERFORMANCE: F-15 EPAWSS is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, however, the F-15 EPAWSS Development contract is a Fixed Price contract with progress payments. 10 percent of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.										

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025				
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 5					PE 0207171F / F-15 EPAWSS					657108 / EPAWSS DEVELOPMENT				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
F-15 EPAWSS																												
Hardware Qualification Testing																												
Software Integration																												
Initial Operational Test & Evaluation																												
Hardware Test Support Cyber Controls and IT Refresh																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207171F / F-15 EPAWSS	Project (Number/Name) 657108 / EPAWSS DEVELOPMENT

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
F-15 EPAWSS				
Hardware Qualification Testing	1	2024	1	2024
Software Integration	1	2024	1	2024
Initial Operational Test & Evaluation	1	2024	3	2024
Hardware Test Support Cyber Controls and IT Refresh	1	2024	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0207279F / <i>Isolated Personnel Survivability and Recovery</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	54.271	10.020	99.248	0.000	99.248	-	-	-	-	-	-
65412B: <i>Isolated Personnel</i>	0.000	0.000	0.000	2.217	0.000	2.217	-	-	-	-	-	-
654522: <i>CSAR EMD</i>	0.000	54.271	10.020	97.031	0.000	97.031	-	-	-	-	-	-

Note

This program, BA 5, PE 0207279F, project 65412B, Isolated Personnel Survival and Flight Equipment (IPSAFE), is a new start.

A. Mission Description and Budget Item Justification

This Program Element contains two projects that provide Air Force aircrew survival equipment to assist in personnel recovery in the event they become Isolated Personnel (IP).

Project 65412B (Isolated Personnel): This project is for the Isolated Personnel Survival and Flight Equipment (IPSAFE) program which develops, test and fields aircrew survival components to support climate specific equipment and aims to increase the ability for IP to evade and survive in operational environments where rapid extraction is not possible.

Project 654522 (CSAR EMD): This project is for the Next Generation Survival Radio (NGSR) program; an Air Force led development effort to replace the aging legacy Combat Survivor Evader Locator (CSEL) handheld radio (HHR) for the entire Joint Force. The NGSR will deliver communications capability supporting the Joint Personnel Recovery Agency (JPRA) Combat Search and Rescue (CSAR) mission to locate, authenticate, and communicate with Joint forces who become isolated. The NGSR program will replace legacy satellite communication and encryption methods to deliver secured end-to-end communication and locate and recover downed aircrew/special operations personnel.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605829F, 0605831F, 0605833F, 0605898F, 0606398F. In FY 2025 \$0.319 million was expended for civilian pay expenses in this program element, and in FY2026 \$0.947 million is forecasted for civilian pay expenses in this program element.

The total cost of the Middle Tier of Acquisition effort is \$222.400 million. The NGSR RP program is fully funded across the Future Years Defense Program.

The FY 2026 cost of the Combat Survivor Evader Locator Next Generation Survival Radio Rapid Prototyping Middle Tier of Acquisition effort is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify FYDP funding in a future budget submission.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0207279F I Isolated Personnel Survivability and Recovery			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	56.225	10.020	30.252	0.000	30.252
Current President's Budget	54.271	10.020	99.248	0.000	99.248
Total Adjustments	-1.954	0.000	68.996	0.000	68.996
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-0.005	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.949	0.000			
• Other Adjustments	0.000	0.000	68.996	0.000	68.996
Change Summary Explanation					
The \$1.954 million decrease in FY 2024 reflects Congressional reductions for Federally Funded Research and Development Centers (FFRDC) (-\$0.005 million) and Small Business Innovation Research (SBIR) (-\$1.949 million)					
The funding decrease from FY 2024 to FY 2025 reflects development efforts on the NGSР handheld device and its' hardware and Mobile User Objective System (MUOS) Beyond-line-of-sight (BLOS) integration efforts; two of the four levels of effort.					
The funding increase from FY 2025 to FY 2026 reflects development on all four levels of effort, testing, and end-to-end integration of the complete NGSР system and its support equipment.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0207279F / <i>Isolated Personnel Survivability and Recovery</i>				Project (Number/Name) 65412B / <i>Isolated Personnel</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
65412B: <i>Isolated Personnel</i>	0.000	0.000	0.000	2.217	0.000	2.217	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note This program, BA 5, PE 0207279F, project 65412B, Isolated Personnel Survival and Flight Equipment (IPSAFE), is a new start. The FY 2026 to FY 2030 RDT&E efforts in PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) were transferred to PE 0207279F (Isolated Personnel Survivability and Recovery) Project 65412B (Isolated Personnel) in order to consolidate program efforts and reduce the quantity of program elements A. Mission Description and Budget Item Justification The Isolated Personnel Survival and Flight Equipment program develops, tests, and fields equipment designed to increase the survivability of the Isolated Person (IP), to support their evasion, resistance, and escape, and to signal their location to friendly rescue forces. To this end, IPSAFE includes the following component efforts: seat survival kits, single-seat life rafts, signaling communication, and other similar activities. These component efforts address on-going mission needs and provide for biome-specific equipment as requirements and the operational environment dictate. FY 2026 efforts will include conducting and completing market research, purchasing test articles and testing services, and conducting and completing test and evaluation activities for survivability equipment. B. Accomplishments/Planned Programs (\$ in Millions)												
Title: Isolated Personnel Survival and Flight Equipment (IPSAFE) Description: The Isolated Personnel Survival and Flight Equipment (IPSAFE) develops and fields updates to aircrew survival components to support climate specific equipment that increases the ability for an Isolated Person (IP) to evade and survive in operational environments where rapid extraction is not possible. FY 2025 Plans: N/A FY 2026 Plans: - Conduct and complete market research - Conduct initial site vendor analysis FY 2025 to FY 2026 Increase/Decrease Statement:									FY 2024	FY 2025	FY 2026	
									0.000	0.000	2.217	

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207279F / <i>Isolated Personnel Survivability and Recovery</i>	Project (Number/Name) 65412B / <i>Isolated Personnel</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
The FY 2025 to FY 2026 funding increase is to complete initial Material Solutions Analysis (MSA) activities			
Accomplishments/Planned Programs Subtotals		0.000	2.217
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
Program management for Isolated Personnel Survival and Flight Equipment (IPSAFE) is under the direction of PEO Combat Readiness, located at Wright-Patterson AFB, OH. The Human Systems Division (AFLCMC/ROU; Wright-Patterson AFB, OH) provides contracting, legal, comptroller, programmatic, engineering, text, and logistics support. IPSAFE will support early acquisition development and material solutions analysis (MSA). Activities include, but are not limited to, market research, purchase of test articles, purchase of testing services, and other Research, Development, Testing and Evaluation activities. Market Research findings will help inform future Air Force funding decisions.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery						Project (Number/Name) 65412B / Isolated Personnel			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
IPSAFE	TBD	AFLCMC/ROU : Wright-Patt, AFB, OH	-	0.000		0.000		2.217	Nov 2025	-		2.217	-	-	-
Subtotal			-	0.000		0.000		2.217		-		2.217	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.000		0.000		2.217		-		2.217	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025																			
Appropriation/Budget Activity 3600 / 5										R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery										Project (Number/Name) 65412B / Isolated Personnel									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
IPSAFE																												
Material Solutions Analysis (MSA)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery	Project (Number/Name) 65412B / Isolated Personnel

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
IPSAFE				
Material Solutions Analysis (MSA)	1	2026	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0207279F / <i>Isolated Personnel Survivability and Recovery</i>				Project (Number/Name) 654522 / <i>CSAR EMD</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
654522: <i>CSAR EMD</i>	0.000	54.271	10.020	97.031	0.000	97.031	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The FY 2026 to FY 2030 RDT&E efforts in PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) were transferred to PE 0207279F (Isolated Personnel Survivability and Recovery) Project 65412B (Isolated Personnel) in order to consolidate program efforts and reduce the quantity of program elements

A. Mission Description and Budget Item Justification

The Next Generation Survivor Radio (NGSR) program is an Air Force led effort to replace the aging Combat Survivor Evader Locator (CSEL) Radio supporting the entire Joint force. The Department of Defense (DoD) plans for the NGSR Handheld Radio (HHR) system and support equipment to serve as the primary communications link for all DoD aircrew who become isolated personnel (IP). NGSR will replace legacy satellite communication and encryption methods to deliver communication capability in support of the Joint Personnel Recovery Agency (JPRA) Combat Search and Rescue (CSAR) mission to locate, authenticate, and communicate with Joint forces who become IPs.

NGSR provides secure, over-the-horizon, two-way data communications and precise geo-positioning information to rescue forces. Additionally, NGSR is able to operate in anti-access/area denial (A2/AD) environments by providing a National Reconnaissance Office (NRO) approved low probability of intercept/low probability of detection communication pathway for IPs. NGSR is one node of an overall personnel recovery network which includes multiple on-orbit satellite constellations, geographically dispersed satellite ground stations, joint service CSAR communication devices, and a Joint Personnel Recovery Center (JPRC) cloud-based web application. NGSR plans to incorporate modern encryption technology to comply with current National Security Agency (NSA) cryptographic standards.

The Air Force will meet system objectives by executing a competitive Rapid Prototyping effort to design and build a production-ready NGSR artifact. Once prototyped, the Air Force, Army, Navy, and Marine Corps will field the NGSR prototype to their respective services via a follow-on sole-source Rapid Fielding production contract.

FY 2026 efforts include final development of both organic and Industry-led capabilities. The new Hand Held Radio prototype will complete development and begin the multi-year process of receiving National Security Administration (NSA) certification. FY 2026 funding will accelerate production and fielding of the NGSR system to fulfill the urgent need for a safe and secure communication pathway. FY 2026 funding will also allow for nation agencies to complete development of critical encryption functions and waveforms to increase alternate secured communications capabilities in combat environments. Additionally, FY 2026 funding will enable the organic development of user Web Application to transition from an unsecure to secure operating environment. Finally, FY 2026 funding allows of the development of support equipment to extend the capability of the NGSR system, supporting air and ground forces, and aircraft agnostic capabilities. The individual capabilities will be integrated into a complete system architecture using joint Service test and integration assets.

The FY 2026 request was reduced by \$0.117 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery	Project (Number/Name) 654522 / CSAR EMD		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Title: Next Generation Survival Radio (NGSR)		54.271	10.020	97.031
Description: The Research and Development (R&D) efforts associated with the Next Generation Survivable Radio (NGSR) effort aim to Rapidly Prototype a production-ready -- multi-function -- handheld radio integrated into a multi-pronged system in advance of planned future production and fielding efforts. The radio serves as the prime communications pathway for Army, Navy, Marine, and Air Force pilots in the event they become isolated personnel.				
FY 2025 Plans: -Continue to deliver second iteration of handheld radio (HHR) prototypes -Continue to develop Low probability of exploitation (LPE) Waveform and Encryption -Continue to develop Cloud/Web App (build-to-budget) and testing and prepare authority to operate (ATO) -Continue to develop secure, over-the-horizon, two-way data communications and precise geo-positioning capability				
FY 2026 Plans: -Begin test and integration of Beyond Line of Sight (BLOS) capability -Begin test and Integration of Hand Held Radio -Continue the integration of Cloud-based data processing -Continue the integration of Web Application -Begin the integration of National encryption assets -Complete the National Security Agency (NSA) Certification of Hand Held Radio -Continue development and Integration of support equipment -Develop Portable Interrogator capability: mounted/dismounted, hardware and software capabilities				
FY 2025 to FY 2026 Increase/Decrease Statement: The \$87.011 million increase from FY 2025 to FY 2026 is due to finalizing development of both government and industry capabilities for a mix of new and high-end technologies. The multiple Lines of Effort will increase readiness by integrating complex position, navigation, and timing (PNT) capabilities; developing support equipment that expands capabilities in a multi-domain operating environment; and increasing readiness and security by developing and leveraging current capabilities that support combat rescue missions and broadening the scope for other joint Service advantage. Key efforts for FY 2026 include completing the Hand Held Radio prototype for National Security Administration (NSA) certification and rapid deployment; finalizing national agency encryption and waveform development for enhanced battlefield communications; transitioning the user web application to a secure environment; developing support equipment to expand NGSR system capabilities for air and ground forces; and integrating all capabilities into a complete system architecture using joint service testing.				
Accomplishments/Planned Programs Subtotals		54.271	10.020	97.031

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery				Project (Number/Name) 654522 / CSAR EMD			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• RDTE 05 1203176F: <i>Combat Survivor Evader Locator</i>	0.000	1.135	0.000	-	0.000	-	-	-	-	-	-
• OPAF 03 1203176F: <i>Combat Survivor Evader Locator</i>	0.000	2.222	0.000	-	0.000	-	-	-	-	-	-
Remarks											
D. Acquisition Strategy											
The Air Force is the lead service for the development of the Next Generation Survivor Radio (NGSR) program supporting the entire Department of Defense (DoD) joint force.											
The Milestone Decision Authority (MDA), Air Force Program Executive Officer (PEO) Electronic Systems, designated the Next Generation Survival Radio (NGSR) handheld device program as a Middle Tier of Acquisition (MTA) Rapid Prototyping effort on 21 June 23. The program used Other Transactional Agreements (OTA) to award two project contracts and conduct competitive prototype capability demonstrations. A single prototype vendor was selected in Oct 2024 (General Dynamics) and the contractor was awarded a final prototyping contract in Oct 2024. NGSR is scheduled to transition from Rapid Prototype to Rapid Fielding in mid-2026											
Program management for NGSR is under the direction of PEO Electronic Systems, located at Hanscom AFB, MA. The Aerospace Management Systems Division (AFLCMC/HBA; Hanscom MA) provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support. The Air Force Life Cycle Management Center, provides Other Transaction Authority.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery					Project (Number/Name) 654522 / CSAR EMD				
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
MUOS Ground Station Upgrade	MIPR	Government : TBD	-	20.200	Feb 2024	2.000	Apr 2025	6.500	Feb 2026	-		6.500	-	-	-
Low Probability of Intercept/ Low Probability of Detection (LPI/LPD) Waveform Upgrade	MIPR	Government : TBD	-	2.000	Nov 2023	1.000	Apr 2025	3.626	Apr 2026	-		3.626	-	-	-
NGSR Rapid Prototype (Design/Refine/Build)	C/FFP	General Dynamics, MS : Scottsdale, AZ	-	20.449	Jan 2024	2.020	Jul 2025	5.000	Apr 2026	-		5.000	-	-	-
JPRC Software Modernization and Migration	Various	Government : TBD	-	3.552	Nov 2023	1.000	Jul 2025	8.000	Apr 2026	-		8.000	-	-	-
Encryption Development	MIPR	Government : TBD	-	2.570	Nov 2023	1.581	Jul 2025	1.500	May 2026	-		1.500	-	-	-
Portable Interrogator Module (Mounted, Dismounted; Hardware, Software)	Various	Government : TBD	-	-		-		19.458	Oct 2025	-		19.458	-	-	-
Support Equipment (Radio Loaders)	C/FFP	General Dynamics, MS : Scottsdale, AZ	-	-		-		5.000	Jun 2026	-		5.000	-	-	-
Subtotal			-	48.771		7.601		49.084		-		49.084	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
NGSR Direct Cite Authority	C/CPAF	AFLCMC/HBZ : Hill AFB, UT	-	0.850	Jan 2024	0.319	Jan 2025	0.947	Jan 2026	-		0.947	-	-	-
Subtotal			-	0.850		0.319		0.947		-		0.947	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5							R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery				Project (Number/Name) 654522 / CSAR EMD				
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Sys Test & Eval (DT, OT)	PO	Not specified. : TBD	-	2.000	Mar 2024	2.000	Jan 2025	10.000	Mar 2026	-		10.000	-	-	-
BLOS Test, Integration	MIPR	Not specified. : TBD	-	-		-		8.000	Mar 2026	-		8.000	-	-	-
NGSR Prototype Test, Integration	C/FFP	General Dynamics, MS : Scottsdale, AZ	-	-		-		8.000	Mar 2026	-		8.000	-	-	-
JPRC Software Test, Integration	PO	Not specified. : TBD	-	-		-		2.000	Mar 2026	-		2.000	-	-	-
NGSR Message Encryption Test, Integration	MIPR	Not specified. : TBD	-	-		-		2.000	Mar 2026	-		2.000	-	-	-
Portable Interrogator Test, Integration	TBD	Not specified. : TBD	-	-		-		5.000	Jun 2026	-		5.000	-	-	-
Subtotal			-	2.000		2.000		35.000		-		35.000	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Sys Eng / Prog Management (SEPM)	TBD	Not specified. : TBD	-	2.650	Nov 2023	0.100	Jul 2025	4.000	Oct 2025	-		4.000	-	-	-
Federally Funded Research and Development Center (FFRDC)	Various	Not specified. : TBD	-	-		-		2.000	Oct 2025	-		2.000	-	-	-
Joint Integration Test Center	MIPR	Not specified. : TBD	-	-		-		3.000	Mar 2026	-		3.000	-	-	-
Training	TBD	Not specified. : TBD	-	-		-		3.000	Aug 2026	-		3.000	-	-	-
Subtotal			-	2.650		0.100		12.000		-		12.000	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	54.271		10.020		97.031		-		97.031	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force							Date: June 2025			
Appropriation/Budget Activity 3600 / 5			R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery			Project (Number/Name) 654522 / CSAR EMD				
	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 5

R-1 Program Element (Number/Name)

PE 0207279F / *Isolated Personnel Survivability and Recovery*

Project (Number/Name)

654522 / CSAR EMD

FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
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. Beyond Line of Site Development

1.1. MUOS Ground Station Upgrade - DETI

1.2. LPI/LPD Waveform Upgrade

1.3 BLOS Integration and Testing

2. NGSR Rapid Prototyping

2.1. Competitive Rapid Prototype Development

2.2. Personnel Recovery Systems Integration and Testing

2.3. Production Unit Integration and Testing

3. JPRC Software Modernization and Migration

3.1. JPRC Application (Web Transition)

3.2. JPRC Software Cloud Migration

3.3 JPRC Cloud Application System Integration and Testing

4. NGSR Message Encryption Development

4.1. Encryption Selection/Tailoring

4.2. Encryption Integration and Testing

5. Objective System - Rapid Fielding

5.1. Planning

5.2. NGSR Operational Testing

6. Software Augmentation and Upkeep

6.1. MUOS Ground Station - DETI

6.2. NGSR Handheld Device

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																					Date: June 2025														
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)																			
3600 / 5								PE 0207279F / Isolated Personnel Survivability and Recovery								654522 / CSAR EMD																			
								FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
								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
6.3. JPRC Applications and Cloud																																			

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force

Date: June 2025

Appropriation/Budget Activity

3600 / 5

R-1 Program Element (Number/Name)

PE 0207279F / *Isolated Personnel Survivability and Recovery*

Project (Number/Name)

654522 / CSAR EMD

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
1. Beyond Line of Site Development				
1.1. MUOS Ground Station Upgrade - DETI	3	2024	4	2026
1.2. LPI/LPD Waveform Upgrade	3	2024	4	2026
1.3 BLOS Integration and Testing	3	2025	4	2027
2. NGSР Rapid Prototyping				
2.1. Competitive Rapid Prototype Development	2	2024	3	2026
2.2. Personnel Recovery Systems Integration and Testing	2	2025	4	2026
2.3. Production Unit Integration and Testing	3	2025	4	2027
3. JPRC Software Modernization and Migration				
3.1. JPRC Application (Web Transition)	3	2024	3	2026
3.2. JPRC Software Cloud Migration	3	2024	3	2026
3.3 JPRC Cloud Application System Integration and Testing	3	2025	4	2027
4. NGSР Message Encryption Development				
4.1. Encryption Selection/Tailoring	2	2024	1	2026
4.2. Encryption Integration and Testing	2	2025	4	2027
5. Objective System - Rapid Fielding				
5.1. Planning	1	2024	1	2026
5.2. NGSР Operational Testing	1	2025	4	2027
6. Software Augmentation and Upkeep				
6.1. MUOS Ground Station - DETI	1	2026	4	2030
6.2. NGSР Handheld Device	1	2026	4	2030
6.3. JPRC Applications and Cloud	1	2026	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	PE 0207328F / <i>Stand In Attack Weapon</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	220.978	346.341	255.336	0.000	255.336	-	-	-	-	-	-
653133: <i>Stand In Attack Weapon</i>	0.000	220.978	346.341	255.336	0.000	255.336	-	-	-	-	-	-
Quantity of RDT&E Articles	39	7	24	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Stand-in Attack Weapon (SiAW) system will provide capability to strike rapidly re-locatable targets that create the Anti-Access/Area Denial (A2/AD) environment for 5th Generation and Future Advanced Aircraft. SiAW targets include Theater Ballistic Missile Launchers, Land Attack and Anti-Ship Cruise Missile Launchers, Jammers, Anti-Satellite Systems, and Integrated Air Defense Systems. The SiAW missile system is being developed under a Digital Acquisition (DA) approach that emphasizes agility and innovation. Interim combat capability is pursued through the Navy's Advanced Anti-Radiation Guided Missile-Extended Range (AARGM-ER) program with improved warhead/fuze and F-35 integration (including Universal Armament Interface [UAI] and Mission Planning).

Implements Digital Acquisition tenants of Open, Agile, and Digital; builds and establishes industrial base innovation around the program's enterprise for modularity and adaptability for the life cycle of the weapons system. Leverages common component development, in collaboration with other weapon systems, to reduce redundant costs between systems with similar subsystems requirements. Invests in analytical, data management, digital environments, networks, facilities, and security infrastructure upgrades supporting development of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions. Expands program office staff, facilities, and security infrastructure to support the required classification levels for this program's activities. Engages with DoD, DAF, and industry stakeholders to refine threat analysis, refine inventory requirements, and plan upgrade requirements. Capitalizes on and incorporates successful laboratory research and development efforts applicable to this program's capability.

This effort includes design, development, test, integration, and implementation of appropriate modular open systems approach, related components, and efforts, such as, but not limited to logical interfaces defined in Weapon Open System Architecture (WOSA) and physical interfaces defined/developed in WOSA X. This approach allows modular and severable subsystems, to include those that are software-defined, at the appropriate level to be incrementally added, removed, or replaced throughout the life cycle.

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

FY2026 RDT&E funding for PE 0207328F, Program 653133 is in compliance with budgeted end items per the approved test strategy

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY2024 \$8.663 million was expended for civilian pay expenses in this program element, and in FY2025 \$9.035 million is forecasted for civilian pay expenses in this program element.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0207328F I Stand In Attack Weapon				
The FY 2026 cost of Middle Tier of Acquisition (MTA) for SiAW is reflected in the budget request, including RDT&E and procurement of prototype units. The Department will certify Future Years Defense Program (FYDP) funding in a future budget submission.						
The FY2026 request was reduced by \$0.515 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		298.585	375.528	405.136	0.000	405.136
Current President's Budget		220.978	346.341	255.336	0.000	255.336
Total Adjustments		-77.607	-29.187	-149.800	0.000	-149.800
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-70.494	-29.187			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-7.113	0.000			
• Other Adjustments		0.000	0.000	-149.800	0.000	-149.800
Change Summary Explanation						
FY 2024 adjustment for Congressional reduction due to SiAW Development Carryover and Aircraft Integration Delays (-\$70.494M).						
FY 2025 adjustment for Congressional reduction due to SiAW Program Carryover (-\$29.187M).						
FY 2026 funding decrease of -\$149.8M due to F-35A aircraft availability for post MTA integration effort.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: F-35 Integration				7.000	34.463	28.393
Description: Integration of the AARGM-ER and SiAW missiles onto the F-35. Efforts for aircraft integration will address the F-35 aircraft software development, Mission Planning capability, engineering to support weapon integration, testing, and airworthiness certification for the missile carriage and employment efforts.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0207328F <i>I Stand In Attack Weapon</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2025 Plans: Continue integrating the AARGM-ER on the F-35 as interim combat capability; includes ground testing, F-35 weapon integration, launcher adapter development, mission planning, and flight testing. Continue initial integration of the SiAW missile on the F-35, including Systems Requirements Review with JPO, mission planning, mission data development, and airworthiness.				
FY 2026 Plans: Integrate the AARGM-ER on the F-35 as interim combat capability. Will also work on integration of the AARGM-ER on the F-35 to a full combat capability; includes ground testing, F-35 weapon integration, launcher adapter development, mission planning, and flight testing. Continue initial integration of the SiAW missile on the F-35, including mission planning, mission data development, ground testing, system integration lab testing, and airworthiness.				
FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to planned ramp down of F-35 integration activities.				
Title: SiAW Development		165.702	223.932	222.791
Description: Conduct development and testing of discrete SiAW technologies as well as the integrated SiAW missile system. This includes the development of an initial SiAW capability via the Middle Tier Acquisition described in Section A.				
FY 2025 Plans: Execute Development, Risk Reduction (RR), system security, anti-tamper capabilities and continue efforts (jettison testing, safe separation testing) to support development testing (DT) for SiAW missile system. Begin the establishment of the Integrated Digital Environments (IDE). This includes establishment of modeling and simulation capability through the maturation of the digital thread and establishment of the virtual twin.				
FY 2026 Plans: Execute next higher-level assembly development, continue test and fielding Risk Reduction (RR) efforts, mature system security and anti-tamper capabilities and conduct Integrated Test (IT) for SiAW weapon system. Use the established Integrated Digital Environments (IDE) for digital engineering, configuration management, and evaluation of system performance utilizing the virtual twin and its associated modeling and simulation capabilities.				
FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to planned ramp down of MTA activities.				
Title: Target/Test Assets, Testing, & Support		48.276	87.946	4.152

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)						R-1 Program Element (Number/Name) PE 0207328F I Stand In Attack Weapon						
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Description: Provides associated government and contract support for F-35 developmental and operational testing for AARGM-ER and SiAW. Includes required test assets and support, flight test equipment, construction and procurement of targets to meet mission requirements, test wing and range support to include both sea and land ranges, and ground/flight test support.												
FY 2025 Plans: Continue AARGM-ER test efforts for F-35 integration. Continue SiAW missile test support, purchasing test equipment, target construction, range/ground support, and test assets. Continue target/threat emitter acquisition to include weapons cybersecurity support and test investments, and development and certification of flight telemetry and termination system.												
FY 2026 Plans: Complete AARGM-ER missile test support, purchasing test equipment, target construction, range/ground support, and test assets. Complete SiAW missile test support, purchasing test equipment, target construction, range/ground support, and test assets. Continue target/threat emitter acquisition to include weapons cybersecurity support and test investments, and development and certification of flight telemetry and termination system. There will be no further procurement of test assets for SiAW F-35 integration efforts.												
FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to reduction in F-35 integration test asset purchases for SiAW.												
Accomplishments/Planned Programs Subtotals										220.978	346.341	255.336
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 07 0205601N: AARGM-ER (Navy)	51.807	16.775	26.415	-	26.415	-	-	-	-	-	-	
• MPAF 02 0207328F: Stand-In Attack Weapon	41.947	152.646	185.324	-	185.324	-	-	-	-	-	-	
Remarks												
RDTE: US Navy AARGM-ER Program Office, Anti-Radiation Missile Improvement Systems Development US Navy appropriation RDT&E 1319. MPAF: Funding contained in procurement document utilized to procure initial production lot of AARGM-ER weapons.												
E. Acquisition Strategy												
The Stand-in Attack Weapon (SiAW) program will utilize a multi-phase approach to migrate advanced technologies and weapon designs into an Model Based System Engineering (MBSE) environment and then rapidly evolve the designs for an initial capability followed by a more comprehensive capability. The first Phases (1 & 2)												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force</i> / BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0207328F / <i>Stand In Attack Weapon</i>	
have been approved as a Middle Tier of Acquisition (MTA) program, and will focus on the integration of key technologies, the implementation of digital acquisition, a competitive selection, and an initial capability on a surrogate aircraft in less than 5 yrs. Key tenets of the SiAW program will be the establishment/use of a MBSE environment, implementation of a Weapon Open System Architecture (WOSA), and Agile Software Development. Air Force plans to continue Navy-led AARGM-ER investments to field an interim combat capability on the F-35.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207328F / Stand In Attack Weapon				Project (Number/Name) 653133 / Stand In Attack Weapon					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
F-35 Integration	MIPR	Various : Various	0.000	7.000	May 2024	34.463	Jan 2025	28.393	Dec 2025	-		28.393	-	-	-
Mission Planning	MIPR	Various : Various	0.000	1.312	May 2024	0.700	May 2025	0.700	Jul 2026	-		0.700	-	-	-
SiAW Development	Various	Various : Various	0.000	142.862	Dec 2023	195.835	Nov 2024	196.920	Nov 2025	-		196.920	-	-	-
Subtotal			0.000	151.174		230.998		226.013		-		226.013	-	-	N/A
Remarks Northrop Grumman Defense Systems (NGDS)															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Civ Pay - Direct Cite Authorization (DCA)	Allot	AFLCMC/FZA : Wright Pat, OH	0.000	8.663	Oct 2023	9.035	Oct 2024	13.026	Oct 2025	-		13.026	-	-	-
Program support costs	Various	Various : TBD	0.000	11.476	Oct 2023	16.083	Oct 2024	10.286	Oct 2025	-		10.286	-	-	-
Subtotal			0.000	20.139		25.118		23.312		-		23.312	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Test Assets AARGM-ER	MIPR	NGDS : Northridge, CA	0.000	0.000	Jan 2024	6.000	Dec 2025	-		-		-	-	-	-
Test Assets SiAW	C/FPIF	NGDS : Northridge, CA	0.000	35.317	Feb 2024	67.042	Mar 2025	0.000	Nov 2025	-		0.000	-	-	-
Government Test/Target Support (includes flight test equipment, Targets/ shapes builds, 96 TW range, and SEEK Eagle support)	Various	Various : Various	0.000	12.959	Jan 2024	14.904	Jan 2025	4.152	Oct 2025	-		4.152	-	-	-
Subtotal			0.000	48.276		87.946		4.152		-		4.152	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207328F / Stand In Attack Weapon				Project (Number/Name) 653133 / Stand In Attack Weapon					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Administration and Advisory Services (A&AS)	C/CPFF	HX5 LLC : Fort Walton Beach, FL	0.000	1.389	Feb 2024	2.279	Dec 2024	1.859	Dec 2025	-		1.859	-	-	-
Subtotal			0.000	1.389		2.279		1.859		-		1.859	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	220.978		346.341		255.336		-		255.336	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207328F / Stand In Attack Weapon	Project (Number/Name) 653133 / Stand In Attack Weapon	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
F-35 Integration																												
AARGM-ER integration on F-35																												
SiAW Development																												
SiAW Development																												
SiAW Phase 2 - Contract Award																												
SiAW Phase 2 - Prototype Development																												
AARGM-ER Development																												
AARGM-ER EMD																												
AARGM-ER F-35 Integration for Interim Capability																												
Target & Test Assets, Test, & Support																												
Flight test support, range modifications, & targets for AARGM-ER and SiAW																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207328F / Stand In Attack Weapon	Project (Number/Name) 653133 / Stand In Attack Weapon	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
F-35 Integration				
AARGM-ER integration on F-35	1	2024	4	2030
SiAW Development				
SiAW Development	3	2024	1	2027
SiAW Phase 2 - Contract Award	1	2024	1	2027
SiAW Phase 2 - Prototype Development	4	2024	1	2027
AARGM-ER Development				
AARGM-ER EMD	1	2024	4	2026
AARGM-ER F-35 Integration for Interim Capability	1	2024	4	2026
Target & Test Assets, Test, & Support				
Flight test support, range modifications, & targets for AARGM-ER and SiAW	1	2024	1	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0207407F I Electromagnetic Battle Management (EMBM)							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	20.439	0.000	20.439	-	-	-	-	-	-
650098: <i>Electromagnetic Battle Management (EMBM)</i>	0.000	0.000	0.000	20.439	0.000	20.439	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2026, PE 060427F, Electronic Warfare Development, Project 653891, Adv Infrared Counter Measures (Aircm) efforts were transferred to PE0207407F, Electromagnetic Battle Management (EBMB), Project 650098, EMBM.

A. Mission Description and Budget Item Justification

Electromagnetic Battle Management is an Air Force capability to provide electromagnetic spectrum situational awareness, decision support, and command and control linked by common architectures, standards, and data to enable planning, coordination, and synchronization of electromagnetic spectrum operations (EMSO) across the range of military operations.

EMBM will consist of five component capabilities; the ability to attain and maintain EMS Situational Awareness (SA), EMS planning and decision support, non-kinetic command and control, spectrum deconfliction, and a training interface - linked by common architecture, standards, and data. EMBM enables the Combined/Joint Force Air Component Commander to prioritize, integrate, synchronize, C2, and de-conflict non-kinetic operations in support of current operations. AF EMBM will feed into EMBM-J at the COCOM-level.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 060531F, 0605833F, 0605898F, 0606398F.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0207407F I Electromagnetic Battle Management (EMBM)				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	0.000	0.000	0.000	0.000	0.000	
Current President's Budget	0.000	0.000	20.439	0.000	20.439	
Total Adjustments	0.000	0.000	20.439	0.000	20.439	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	20.439	0.000	20.439	
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: EMBM Development				0.000	0.000	20.439
Description: Perform assessments and analyses for an Air Force capability to analyze adversaries' use of the electromagnetic spectrum (EMS), make real-time decisions assisted by machine learning/artificial intelligence, preform effective electromagnetic attack (EA), and share EA techniques and identification/targeting criteria to the joint warfighting force.						
FY 2025 Plans: Previous work was done under PE 0604270F Electronic Warfare Development, BPAC 653891.						
FY 2026 Plans: EMBM will execute the second demo and corresponding M&S effort to set the metrics required to document Early Operational Capability in order to influence the system-to-system integration work and ML efforts to reach the goal of end of CY27. The program will also fund the building of and ramp-up of an EW System Program Office to be in place for IOC sprint efforts.						
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased to enable system architecture development and integration testing along with min viable product metric development						
Accomplishments/Planned Programs Subtotals				0.000	0.000	20.439
D. Other Program Funding Summary (\$ in Millions)						
N/A						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0207407F I Electromagnetic Battle Management (EMBM)	
D. Other Program Funding Summary (\$ in Millions)		
Remarks In FY26, this PE transitioned from PE 0604270F Electronic Warfare Development, BPAC 653891.		
E. Acquisition Strategy Various acquisition approaches will be used. Government organic capabilities will be utilized to the greatest practicable extent to include threat acquisition and exploitation, modeling and simulation, testing, and development work. Portions of the program will be executed via Other Transactional Authorities which facilitate collaborative Government, Industry, and Academic ordnance technology development and prototyping initiatives. Funds will be used to provide acquisition program office manpower, contract support, or other expenses.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207407F / <i>Electromagnetic Battle Management (EMBM)</i>						Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
EMBM System Integration	TBD	Not specified. : TBD	-	-		-		10.439	Mar 2026	-		10.439	-	-	-
Subtotal			-	-		-		10.439		-		10.439	-	-	N/A
Remarks Also develops the transport protocol of USAF EMBM data to the EMBM-J platform															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Management Administration (PMA)	TBD	Not specified. : TBD	-	-		-		1.000		-		1.000	-	-	-
Subtotal			-	-		-		1.000		-		1.000	-	-	N/A
Remarks PMA: Other Government cost, Travel Government Purchase Card (GPC), Contractor Services: Advisory and Assistance (A&AS) and other Government Costs (OGC) for contract support.															
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Architecture Demonstration	TBD	Not specified. : TBD	-	-		-		5.000		-		5.000	-	-	-
Subtotal			-	-		-		5.000		-		5.000	-	-	N/A
Remarks Architecture Demonstration also includes Modeling and Sim efforts															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207407F / Electromagnetic Battle Management (EMBM)						Project (Number/Name) 650098 / Electromagnetic Battle Management (EMBM)			
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
System Program Office Dev	C/CPAF	Not specified. : TBD	-	-		-		4.000		-		4.000	-	-	-
Subtotal			-	-		-		4.000		-		4.000	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		20.439		-		20.439	-	-	N/A
Remarks EMBM Systems Integration will pull all of the contributing systems into a cohesive and effective single interface as well as port the USAF data to the EMBM-J platform. PMA will allow for the Program Office to sheppard the ongoing EOC developmental efforts Architecture Demonstration along with M&S efforts will evaluate the best of breed GOTS programs required to execute the five tenants of EMBM, EMS SA, EW planning, decision support and deconfliction, and system training. Minimum viable system requirements and metrics will be established for the EOC prototype and future system iterations An EW System Program Office does not currently exist, the EMBM Program will build one from the ground up starting in FY26															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0207407F / Electromagnetic Battle Management (EMBM)					650098 / Electromagnetic Battle Management (EMBM)			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
EMBM System Integration																												
ESI																												
PMA																												
PMA																												
Architecture Demo																												
AD																												
SPO Development																												
SPO																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207407F / <i>Electromagnetic Battle Management (EMBM)</i>	Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
EMBM System Integration				
ESI	1	2026	4	2030
PMA				
PMA	1	2026	4	2030
Architecture Demo				
AD	1	2026	4	2027
SPO Development				
SPO	1	2026	4	2027

Note

the EMBM Program is aiming for end of CY27 to reach Emergent Operational Capability status for the system. The program will do this over the next two years by developing minimum operational standards and metrics for success, experimenting with multiple exiting GOTS systems to find best of breed for the required system capability, and then integrating them into a functional system-of-systems suite to satisfy the required standards.

EMBM system integration will tie multiple disparate systems together into a unified control and display unit integrating EMSO with all other military operations, combining capabilities of EMS to manage, protect, exploit, and attack through the electromagnetic spectrum. EMBM will consist of five components with the ability to attain and maintains, EMS SA, EMS decision support analytics, EMS operations planning, C2, and training. Efforts will revolve around the development of advanced software, and robust meshed comm networking and data links.

The Architectural Demonstrations (to include modeling and sim efforts) will enable the program to set the standards and metrics for measuring execution for the system as it receives, analyzes, displays, employs, and securely distributes adversary and friendly EMS information.

USAF BIG IRON will act as the Integration Program Office until EOC is achieved and the prototype system is delivered. It will then hand off the further program efforts to a robust EW System Program Office for the lifecycle execution of this and other parallel EW programs. An EW SPO does not currently exist so the EMBM Program will build one from the ground up starting in FY26.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0207701F / <i>Full Combat Mission Training</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	7.597	7.754	12.898	0.000	12.898	-	-	-	-	-	-
655012: <i>Full Combat Mission Training</i>	0.000	7.597	7.754	12.898	0.000	12.898	-	-	-	-	-	-

Note

In FY 2025, PE 0207605F, Wargaming and Simulation Centers, Project 672888, Distributed Mission Operations Center, efforts were transferred to PE 0207701F, Full Combat Mission Training, Project 672888, Distributed Mission Operations Center to meet higher priority AF Operational Readiness and Training efficiencies. Subsequently, PE 0207701F now resides in BA05 (AFRL integration work) and BA07 (DMOC Efforts).

A. Mission Description and Budget Item Justification

Full Combat Mission Training (FCMT) supports Air Force Distributed Mission Operations (DMO), Live-Synthetic Blended integration. FCMT funding provides research in areas benefiting the DMO/Live Virtual Constructive (LVC) environment and the Air Force synthetic training enterprise. It also provides research and development to facilitate integration of fielded and newly acquired Air Force owned training devices into DMO/LVC networks; enhances the quality of training for the systems added to the network; enables aircrews to network with LVC components to form the integrated DMO battlespace; links geographically distributed high-fidelity combat and combat support training devices including Command and Control and Intelligence, Surveillance, and Reconnaissance systems and develops, demonstrates, and inserts Multi-Level Security (MLS) capability. This capability enables warfighters to exercise and train at the operational and strategic levels of war, conduct networked unit-level training at home station and high-end test and training at joint test and training sites.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY24 \$0.00M was expended for civilian pay expenses in this program element. FY25 \$0.00M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0207701F I Full Combat Mission Training			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	7.597	7.754	7.939	0.000	7.939
Current President's Budget	7.597	7.754	12.898	0.000	12.898
Total Adjustments	0.000	0.000	4.959	0.000	4.959
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	4.959	0.000	4.959
Change Summary Explanation					
FY26 includes 4.959M program increase for legacy training capability integration with modern network architecture.					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0207701F / Full Combat Mission Training				Project (Number/Name) 655012 / Full Combat Mission Training			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
655012: Full Combat Mission Training	0.000	7.597	7.754	12.898	0.000	12.898	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Full Combat Mission Training (FCMT) supports Air Force Distributed Mission Operations (DMO), Live-Synthetic, Blended, and Joint Simulation Environment (JSE) integration. FCMT funding provides research in areas benefiting the DMO/Live Virtual Constructive (LVC) environment as a whole; provides research and development to facilitate integration of fielded and newly acquired Air Force owned training devices into DMO/LVC networks; enhances the quality of training for the systems added to the network; enables aircrews to network with LVC components to form the integrated DMO battlespace; links geographically distributed high-fidelity combat and combat support training devices including Command and Control and Intelligence, Surveillance, and Reconnaissance systems and develops, demonstrates, and inserts Multi-Level Security (MLS) capability. This capability enables warfighters to exercise and train at the operational and strategic levels of war as well as conduct networked unit-level training at home station.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.00M was expended for civilian pay expenses in this program element. FY 2025 \$0.00M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Cross Domain Solutions (CDS)	3.420	3.489	3.681
Description: Development, demonstration, and insertion of Multi-Level Security (MLS) capability supporting Live Virtual Constructive training for fifth generation platforms.			
FY 2025 Plans: Validate Rule Sets for FVEY CDS solution. Begin work to rapidly search SCGs to identify CDS rule set focus areas. Continue DMO MLS development and validation. Create common rule sets for interoperability.			
FY 2026 Plans: Continue work to rapidly search SCGs to identify CDS rule set focus areas. Continue DMO MLS development and validation. Create common rule sets for interoperability.			
FY 2025 to FY 2026 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207701F / Full Combat Mission Training	Project (Number/Name) 655012 / Full Combat Mission Training		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Funding increase due to a slight increase in Cross Domain Solutions				
Title: Distributed Mission Operations Development Description: Development, demonstrations, studies and insertions of Live Virtual Constructive related technologies and proficiency based continuation training strategies. FY 2025 Plans: Development work to ensure persistent DMO interoperability. Demonstrate DMO interoperability in at least two mission training applications. FY 2026 Plans: Continue to develop persistent DMO interoperability. Demonstrate DMO interoperability in at least two mission training applications. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increase to support expedited interoperability efforts.		1.899	1.939	3.595
Title: Development and validation of DMO and Blended training assessments tools. Description: Studies to assess and validate Live Virtual Constructive (LVC) training and accreditation of portions of this process; studies to develop objective enhancement and measurement tools DMO and blended training environments. FY 2025 Plans: As part of ongoing activities continue trade space analytics for integrating purpose-built components into the virtual ecosystem to support local and distributed blended training events. Demonstrate blended live training and virtual training interoperability in live flight exemplars. FY 2026 Plans: Continue analytic activities from previous years and leverage lessons learned to refine and revise purpose-built components and tools and methods to improve virtual ecosystem integration to support local and distributed blended training events. Evolve demonstrations of blended training and virtual training interoperability in live flight exemplars with prior findings and project to new capabilities. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increase to support increased number of blended training events.		1.139	1.163	2.861
Title: Network Studies		1.139	1.163	2.761

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0207701F / Full Combat Mission Training				Project (Number/Name) 655012 / Full Combat Mission Training				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
Description: Research and development to provide for the integration of fielded and newly introduced Air Force, Joint and Coalition high-fidelity flight and mission trainers. FY 2025 Plans: Begin evaluations of local and distributed services that reduce network transport delays while maintaining/enhancing training quality services. Evaluate alternative approaches for on-premises and cloud-based services supporting improved network responsiveness and agility. FY 2026 Plans: Continue trade space analytics for integrating purpose-built components into the range ecosystem to support local and distributed blended training events. Demonstrate blended training interoperability in live flight exemplars. FY 2025 to FY 2026 Increase/Decrease Statement: FY 2026 increase to expedite cross domain network solutions.												
Accomplishments/Planned Programs Subtotals										7.597	7.754	12.898
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 07 0207701F: Full Combat Mission Training	0.000	3.948	8.096	-	8.096	-	-	-	-	-	-	
Remarks												
D. Acquisition Strategy												
Air Force Research Laboratory (AFRL) will conduct research/studies to develop/implement Cross Domain Solutions (CDS) supporting integrated DMO and Live-synthetic blended training. Fielded and projected Air Force flight and mission training systems without blended training capability and will be modified to ensure training compatibility.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207701F / Full Combat Mission Training				Project (Number/Name) 655012 / Full Combat Mission Training					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Cross Domain Solutions (CDS): Development, Testing and insertion of Mufti-Level-Security protocols, Cross Domain rule set development and accreditation.	Various	Air Force Research Lab : Dayton, OH	-	3.420	Jan 2024	3.482	Nov 2024	3.681	Nov 2025	-		3.681	-	-	-
Develop DMO Blended training capabilities: demonstration, studies and insertion of distributedmission ops related technologies.	Various	Air Force Research Lab : Dayton, OH	-	1.899	Jan 2024	1.934	Nov 2024	3.595	Nov 2025	-		3.595	-	-	-
Validation of warfighter seasoning and development of objective performance enhancements for DMO environment.	Various	Air Force Research Lab : Dayton, OH	-	1.139	Jan 2024	1.161	Nov 2024	2.861	Nov 2025	-		2.861	-	-	-
Other Network Studies: Supporting integration of newly fielded high-fidelity training systems and networks.	Various	Air Force Research Lab : Dayton, OH	-	1.139	Jan 2024	1.161	Nov 2024	2.761	Nov 2025	-		2.761	-	-	-
Subtotal			-	7.597		7.738		12.898		-		12.898	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Management Services	C/CPAF	Air Force Research Lab : Dayton, OH	-	-		0.016	Nov 2024	-		-		-	-	-	-
Subtotal			-	-		0.016		-		-		-	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0207701F / Full Combat Mission Training				Project (Number/Name) 655012 / Full Combat Mission Training				
	Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	7.597		7.754		12.898		-		12.898	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0207701F / Full Combat Mission Training								Project (Number/Name) 655012 / Full Combat Mission Training			

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207701F / Full Combat Mission Training	Project (Number/Name) 655012 / Full Combat Mission Training

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Gateway Development and Legacy Trainers Integration				
Develop gateways to integrate legacy trainers with high-fidelity trainers	1	2024	4	2030
Develop live to synthetic integrated training solutions	1	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	PE 0208036F / <i>Medical C-CBRNE Programs</i>											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	2.006	0.000	0.000	0.000	0.000	-	-	-	-	-	-
654910: <i>Aeromedical Readiness</i>	0.000	2.006	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Current projects in this program include Aeromedical Readiness (Project 654910). Aeromedical Readiness projects provide aerospace medical systems and treatment equipment to improve casualty care and meet worldwide warfighter medical operational requirements.

Aeromedical Readiness provides key aeromedical devices, life-saving capabilities and quality of life technologies and equipment. This program enables the critical care of combat casualties by further developing and optimizing existing technologies for ground Expeditionary Medical Systems (EMEDS) and aeromedical evacuation systems. EMEDS and aeromedical evacuation systems provide the urgent care needed to treat deployed injured warfighters and return them to duty while in country, and to treat combat casualties that need to be safely transported to a stateside hospital for follow on treatment. The program also supports critical capabilities development in the multi-disciplinary areas for light-weight, durable, and rapidly deployable medical equipment to ensure the Air Force is poised to meet future medical readiness and operational requirements, to include but not limited to Spinal Immobilization Transport Device (SIT-D), Pathogen Detection Capability, Automated Vision Testing, Whole Blood Transport and other FDA approved medical treatment devices. This program supports projects ranging from research efforts to optimize human physiologic and cognitive performance for Air Combat Command, to development of patient isolation and transportation devices for Air Mobility Command that enable aeromedical evacuation of patients suffering with highly infectious diseases.

In FY 2024, PE 0604617F, (Agile Combat Support), Project 654910, (Aeromedical Readiness) efforts were transferred to PE 0208036F, (Medical Counter-CBRN), Project 654910, (Aeromedical Readiness), in order to consolidate Combat Support medical readiness requirements under a single PE.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0208036F I Medical C-CBRNE Programs				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	2.006	0.000	0.000	0.000	0.000	
Current President's Budget	2.006	0.000	0.000	0.000	0.000	
Total Adjustments	0.000	0.000	0.000	0.000	0.000	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	0.000	0.000	0.000	
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Aeromedical Equipment Testing/Studies/Minor Development				2.006	-	-
Description: Aeromedical supports Defense Health Program, Joint Services and MAJCOM medical modernization. The Air Force Medical Readiness Agency (AFMRA) Surgeon General Requirement Oversight Council (SGROC) Governance process manages medical capability gaps, research and development, funding prioritization and decisional boards. Aeromedical procures and qualifies commercial-off-the-shelf (COTS) or near COTS medical and aeromedical products and/or performs minor development, studies and management efforts, under Aeromedical Readiness. Aeromedical Program efforts evaluate integrating technologies or prototype systems in a realistic operating environment, expedite technology transition from the laboratory to operational use, emphasis on proving maturity prior to integration and viable decision ready materiel solutions.						
Accomplishments/Planned Programs Subtotals				2.006	-	-
D. Other Program Funding Summary (\$ in Millions)						
N/A						
Remarks						
E. Acquisition Strategy						
Programs consider a streamlined acquisition approach. Whenever practical, commercial items are tested and evaluated as candidates for providing solutions to user needs. This normally involves contractor characterization, verification, and qualification testing to ensure Food and Drug Administration (FDA) approved, commercial off-the-shelf equipment is properly evaluated to identify any capability gaps that may require minor modifications for military use. However, acquisition strategies may also be carried out for traditional Engineering and Manufacturing Development (EMD). Funds may be used to address associated emerging Aeromedical Readiness requirements and for program management activities.						

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025					
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0208036F / Medical C-CBRNE Programs						Project (Number/Name) 654910 / Aeromedical Readiness					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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		
Aeromedical Equipment R&D (Production Representative Units, Testing, Manufacturing Maturation, Food and Drug Administration Clearance)	C/FFP	AFLCMC : Wright-Patterson AFB, OH	-	2.006	May 2024	-		-		-		-	-	-	-		
Subtotal			-	2.006		-		-		-		-	-	-	N/A		
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	2.006		-		-		-		-	-	-	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0208036F / Medical C-CBRNE Programs					654910 / Aeromedical Readiness			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Aeromedical Readiness RDTE Efforts																												
Aeromedical Equipment Testing/Studies/ Minor Development																												
Spinal Transport Device testing concludes, mod contract award																												
Digital Engineering Investment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0208036F / Medical C-CBRNE Progra ms	Project (Number/Name) 654910 / Aeromedical Readiness

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Aeromedical Readiness RDTE Efforts				
Aeromedical Equipment Testing/Studies/Minor Development	1	2024	4	2027
Spinal Transport Device testing concludes, mod contract award	2	2024	2	2025
Digital Engineering Investment	4	2024	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0303008F I SATURN							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	4.985	0.000	4.985	-	-	-	-	-	-
655050: SATURN	0.000	0.000	0.000	4.985	0.000	4.985	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0303008F, project 655050, Second Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) Lead Service, is a new start.

A. Mission Description and Budget Item Justification

Second-Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) Lead Service activities support Headquarters Air Force in its Lead Service role for SATURN. Each role consists of several distinct engineering and fielding responsibilities, to include, but not limited to leading and overseeing the engineering and analysis activities, fielding strategy, cost and schedule data, resolving cross-service disconnects, and training operators on the use of SATURN. DoD Instruction 4630.09, "Communications Waveform Management and Standardization" outlines the roles of a Lead Service that will be pursued via the funds in the program element. To note, DoDI 4630.09 identifies specific roles for a "Lead Service" and a "Waveform Sponsor". "Waveform Sponsor" activities are unique and provided for in a separate program element 0604281F. "Lead Service" activities, which differ from "Waveform Sponsor" activities, will be utilized to:

- Foster development of joint capability needs;
- Expedite adoption across the Services, NATO and other Coalition partners of the SATURN and affiliate (e.g. SATURN Enhanced Data Rate (SEDR) and others) waveform(s)
- Foster adoption of terminals capable of operating SATURN
- Resolve Joint/NATO/Coalition issues which are slowing adoption of the SATURN waveform
- Developing, centralizing, and/or providing training, coordinating exercises or demonstrations to foster Lead Service objectives.

As the Lead Service for the Second-Generation Anti-Jam Tactical UHF Radio for NATO (SATURN), Headquarters Air Force is responsible for overseeing the development, refinement, updating, and U.S. interoperability of this fast frequency hopping waveform, designed to replace Have Quick and provide improved radio resistance to jamming. This encompasses a wide range of activities, including joint enterprise-level system engineering and analysis, development of joint fielding and terminal development strategies, monitoring compliance with reference implementations, establishing policies for common interfaces, collecting cost and schedule data, documenting mission threads, maintaining network management tools, resolving cross-Service disconnects, and providing technical advice for foreign military sales and export controls. Furthermore, the Lead Service will make policy recommendations and develop roadmaps to support the continued development and maturity of the SATURN waveform and its associated applications, including the SATURN Enhanced Data Rate (SEDR) program. Crucially, this role involves coordinating with the Principal Staff Assistant (PSA), the Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)), and the Under Secretary of Defense for Research and Engineering (USD(R&E)) to advocate for waveform and terminal development within the Service budget processes, and to ensure appropriate technology protection requirements and processes are in place to advance waveform and terminal development with the Military Services.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0303008F I SATURN				
This program element may include necessary civilian pay expenses required to support, manage, execute, and deliver weapon system capabilities across the aerial network and tactical data network enterprise. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024, 0.903M was expended for civilian pay expenses in this program element. In FY 2025, 1.715M is forecasted for civilian pay expenses in this program element.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	0.000	4.985	0.000	4.985
Total Adjustments		0.000	0.000	4.985	0.000	4.985
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	4.985	0.000	4.985
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Second Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) Lead Service				0.000	0.000	4.985
Description: This is a FY 26 New Start. SATURN Lead Service will establish and maintain a joint enterprise level view of SATURN. SATURN Lead Service will track, provide recommendations, and assist expediting operational transition to SATURN. This will support the Lead Service's role in guiding the future development and deployment of the SATURN waveform.						
FY 2025 Plans: No funding						
FY 2026 Plans: -Will update and release revised reference implementations based on FY25 testing and feedback -Will begin development of automated tools to monitor compliance with specifications -Will expand technical advisory support to include direct commercial sales -Will conduct system of systems engineering analysis -Will compile joint strategies for fielding and terminal development						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0303008F / SATURN			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
-Will collect cost and schedule data from the Joint services -Will document mission threads and information exchange requirements -Will resolve cross-service disconnects -Will make policy recommendations and developing roadmaps -Will advocate for SATURN waveform and terminal developments within the DoD budget process -Will ensure appropriate technology protection measures are in place to secure resources -Will ensure the effective training and implementation of SATURN across the services				
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> FY 2026 is the first year of funding				
Accomplishments/Planned Programs Subtotals		0.000	0.000	4.985
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy The Headquarters Air Force, as the Lead Service for SATURN, employs a multi-faceted acquisition strategy to secure required services and contracts. This approach leverages a combination of competitive contracts, sole-source awards where appropriate, and Other Transaction Authorities (OTAs) to foster innovation and accelerate development. Emphasis is placed on utilizing existing government contracts and agreements whenever feasible to streamline the acquisition process and reduce administrative overhead. The Air Force collaborates closely with industry partners, academic institutions, and other government agencies to identify and leverage cutting-edge technologies and expertise. Furthermore, the acquisition strategy prioritizes modular open systems approaches (MOSA) to ensure interoperability, reduce vendor lock-in, and facilitate future upgrades and enhancements.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0303008F / SATURN				Project (Number/Name) 655050 / SATURN					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Support	C/TBD	various : TBD	-	0.000		0.000		1.285	Nov 2025	-		1.285	-	-	-
EPASS	C/CPAF	ARS : Hanscom, MA	-	0.000		0.000		3.700	Nov 2025	-		3.700	-	-	-
Subtotal			-	0.000		0.000		4.985		-		4.985	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.000		0.000		4.985		-		4.985	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)	
3600 / 5	PE 0303008F / SATURN	655050 / SATURN	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
SATURN Lead Service																												
Technical Standardization and Interoperability																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0303008F / SATURN	Project (Number/Name) 655050 / SATURN

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
SATURN Lead Service				
Technical Standardization and Interoperability	1	2026	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>					PE 0305155F / <i>Theater Nuclear Weapon Storage & Security System</i>							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	2.000	19.875	0.000	19.875	-	-	-	-	-	-
655708: <i>Nuclear Weapons Support</i>	0.000	0.000	2.000	19.875	0.000	19.875	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Theater Nuclear Weapon Storage and Security System (WS3) supports the North Atlantic Treaty Organization (NATO) Nuclear Deterrence Mission in Europe. The WS3 was designed in the 1980s and fielded in the 1990s. The WS3 Vault Modernization Program (VMP) modernizes storage vault components and will address the National Security Agency (NSA) requirement to modernize the vault unlock management subsystem using modern cryptographic technologies. Finally, the VMP will resolve vault sustainment issues caused by obsolescence. Additional detailed information is classified and can be provided at higher classification levels.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>
Previous President's Budget	0.000	9.018	19.940	0.000	19.940
Current President's Budget	0.000	2.000	19.875	0.000	19.875
Total Adjustments	0.000	-7.018	-0.065	0.000	-0.065
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-7.018			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.065	0.000	-0.065

Change Summary Explanation

In FY 2025, Budget request was reduced by \$7.018M for lack of justification in accordance with section 1422 HR 1968 "Full-Year Appropriations Extension Act, 2025".

<u>C. Accomplishments/Planned Programs (\$ in Millions)</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>
<i>Title:</i> Vault Modernization Program (VMP)	-	2.000	19.875

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0305155F / <i>Theater Nuclear Weapon Storage & Security System</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Description: Funding in FY-2025 through FY-2029 will support development, test, and evaluation of NSA-mandated crypto update and modernization of the Theater Nuclear Weapon Storage & Security System (WS3) storage vaults. FY 2025 Plans: FY-2025 NEW START authorized through Full-Year Continuing Appropriation and Extensions Act, 2025 with majority of work now beginning in FY 2026 since delays to funding appropriation/distribution prevented planned FY-2025 initial contract award. In FY-2025 the VMP architecture was established, scoping the boundary of the obsolete component replacements impacted in order to meet NSA crypto requirements. This determined scope for the initial contracting documents which have been prepared in order to support earliest possible award in FY-2026. FY 2026 Plans: FY-2026 funds will be used to award initial design contract in order to continue maturing the detailed specifications and design of the impacted vault subsystems. This effort encompasses adjudication of NSA encryption requirements. Additional detailed information is classified and can be provided at higher classification levels. FY 2025 to FY 2026 Increase/Decrease Statement: The increase of 17.935 million from FY-2025 to FY-2026; 10.917 million is for initiation of RDT&E support/ramp-up, while 7.018 million is re-phased from FY 2025 due to delayed contract award.				
Accomplishments/Planned Programs Subtotals		-	2.000	19.875
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy N/A				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0305155F / Theater Nuclear Weapon S torage & Security System						Project (Number/Name) 655708 / Nuclear Weapons Support			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Not specified.	C/CPFF	Not specified. : TBD	-	-		1.750	Sep 2025	15.929	Sep 2026	-		15.929	-	-	-
Subtotal			-	-		1.750		15.929		-		15.929	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Not specified.	C/CPFF	Not specified. : TBD	-	-		0.168		3.897	Feb 2026	-		3.897	-	-	-
Subtotal			-	-		0.168		3.897		-		3.897	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Not specified.	C/T&M	Not specified. : TBD	-	-		0.082		0.049		-		0.049	-	-	-
Subtotal			-	-		0.082		0.049		-		0.049	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		2.000		19.875		-		19.875	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 5					PE 0305155F / Theater Nuclear Weapon Storage & Security System					655708 / Nuclear Weapons Support									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Vault Modernization Program																												
Contraction Production																												
Design																												
Test and Evaluation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0305155F / Theater Nuclear Weapon S torage & Security System	Project (Number/Name) 655708 / Nuclear Weapons Support

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Vault Modernization Program				
Contraction Production	4	2025	2	2030
Design	2	2026	1	2030
Test and Evaluation	4	2026	1	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					PE 0305205F I Endurance Unmanned Aerial Vehicles							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	30.000	0.000	0.000	0.000	0.000	-	-	-	-	-	-
654236: Engineering Analysis	0.000	30.000	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Ultra Long-endurance Unmanned Reconnaissance Aircraft (ULTRA) is an Air Force-led technology and concept development effort to demonstrate, transition, and field an Unmanned Aerial System (UAS) that is capable of multiple-day duration flights while still being extremely affordable. ULTRA is a shift in UAS design paradigm by significantly leveraging commercial-off-the-shelf technologies to minimize expensive custom/proprietary items while at the same time simplifying maintenance and manpower costs. The payload integration for ULTRA maintains a modular and flexible architecture to allow for rapid integration of customer-driven payload options.

ULTRA was initiated by the Air Force Research Lab in 2018 in response to demand signals for long-endurance ISR that maintains an affordable edge. ULTRA leverages and builds off the successes and lessons learned of several AFRL, DoD, and other partner-funded development efforts from 2015-2021, including the Long Endurance Aerial Platform UAS which transitioned in 2019 and a number of unique payload developments and integrations. These prior developments guided and informed the initial development and demonstration of ULTRA. The initial ULTRA UAS was developed in 2018 and flight-tested in 2019. In 2020 ULTRA performed limited operational test and evaluation over a six-month period, the results of which informed payload and system requirements to meet current and future needs. Future operational test and evaluation in relevant operational environments is a critical next step in developing ULTRA as an affordable ultra-long endurance ISR platform that is responsive to current and future needs.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F.

No FY26 Funding is requested.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0305205F I Endurance Unmanned Aerial Vehicles				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	30.000	0.000	0.000	0.000	0.000	
Current President's Budget	30.000	0.000	0.000	0.000	0.000	
Total Adjustments	0.000	0.000	0.000	0.000	0.000	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	0.000	0.000	0.000	
Change Summary Explanation						
FY 2024 increased by \$30.000 million from previous President's Budget submission to establish an urgent demonstration capability in response to operational demand signals. Increase supports integration and preparation activities required to perform a flight demonstration in an operationally relevant environment.						
FY 2025 decreased by \$30.002 million to support effort realignment into Program 0305206F Airborne Reconnaissance Systems, Project 674818 Imaging and Targeting Support.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: Ultra Long-endurance Unmanned Reconnaissance Aircraft (ULTRA) Flight Demonstration				30.000	0.000	0.000
Description: This effort is not a new start. It is a flight demonstration of the ULTRA program, which was previously executed in FY23 and prior years under Program 0604555D8Z Operational Energy Prototyping, and under Section 219 authorities. This effort conducts integration and preparation work required to prepare the ULTRA platform for flight demonstration in operationally relevant environments in response to an urgent operational need. It leverages technologies and expertise from across all of the Air Force Research Laboratories, integrating and testing a variety of technologies.						
FY 2025 Plans: Effort realigned into Program 0305206F Airborne Reconnaissance Systems, Project 674818 Imaging and Targeting Support.						
FY 2026 Plans: No FY26 Funding is requested						
Accomplishments/Planned Programs Subtotals				30.000	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0305205F I Endurance Unmanned Aerial Vehicles
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
E. Acquisition Strategy This effort will be awarded as a contract modification to an existing Phase III Small Business Innovation Research (SBIR) contract. This contract was awarded sole-source as required by SBIR policy. This approach was approved through AFRL/PZ.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0305205F / Endurance Unmanned Aeria / Vehicles				Project (Number/Name) 654236 / Engineering Analysis					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
ULTRA Flight Demonstration	SS/CPFF	Air Force Research Labs : WPAFB, OH	-	30.000	Jan 2024	-		-		-		-	-	-	-
Subtotal			-	30.000		-		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	30.000		-		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0305205F / Endurance Unmanned Aeria / Vehicles		Project (Number/Name) 654236 / Engineering Analysis	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
ULTRA Flight Test																												
Commercial-off-the-shelf (COTS) Engine Integration																												
COTS Engine Electronic Control Unit Integration																												
Control System Integration																												
Aircrew Training Development																												
Training curriculum and transition documentation																												
Operational Test and Evaluation prep activities																												
Operational Assessment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0305205F / Endurance Unmanned Aeria / Vehicles	Project (Number/Name) 654236 / Engineering Analysis	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ULTRA Flight Test				
Commercial-off-the-shelf (COTS) Engine Integration	2	2024	3	2024
COTS Engine Electronic Control Unit Integration	3	2024	2	2025
Control System Integration	1	2024	2	2025
Aircrew Training Development	1	2024	4	2024
Training curriculum and transition documentation	1	2024	4	2025
Operational Test and Evaluation prep activities	1	2024	2	2025
Operational Assessment	3	2025	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0401221F / <i>KC-46A Tanker Squadrons</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	147.432	78.704	77.804	145.434	0.000	145.434	-	-	-	-	-	-
650013: <i>Tanker Production Extension</i>	0.000	0.000	0.000	23.828	0.000	23.828	-	-	-	-	-	-
651120: <i>Pegasus Capability Improvements</i>	0.000	49.300	53.809	81.186	0.000	81.186	-	-	-	-	-	-
655271: <i>KC-46 RDT&E</i>	147.432	29.404	23.995	40.420	0.000	40.420	-	-	-	-	-	-

Program MDAP/MAIS Code: 387

Note

This program, BA 5, PE 0401221F, project 651120, Block II Risk Reduction (RR) Study, is a new start.

In FY 2026, PE 0605164F, Air Refueling Capability Modernization, Project 645164F, Continued Tanker Recapitalization RDT&E efforts were transferred to PE 0401221F, KC-46A Tanker Squadrons, Project 650013, Tanker Production Extension in order to maintain continuous KC-135 recapitalization.

A. Mission Description and Budget Item Justification

Replacement of the legacy tanker fleet will take place in several stages. The initial tanker replacement increment of KC-46As will replace roughly a third of the current capability. Future programs will ultimately recapitalize the entire tanker fleet over a period of more than 30 years. The Air Force completed an Analysis of Alternatives (AoA) in Apr 2006 to determine the most appropriate strategy to recapitalize the aging fleet of aerial refueling aircraft. Based on this analysis, the Air Force concluded a strategy of full and open competition to select a commercial derivative replacement tanker aircraft would result in a best value tanker contract. To initiate the first phase of the tanker replacement, the KC-46A program released a final Request for Proposal (RFP) on 24 Feb 2010, and entered source selection on 9 Jul 2010. The KC-46A program held a Milestone B (MS B) Defense Acquisition Board (DAB) on 23 Feb 2011, received approval to enter Engineering and Manufacturing Development (EMD) from the Undersecretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) on 24 Feb 2011, and awarded the KC-46A EMD contract to Boeing on 24 Feb 2011 to develop and procure 179 KC-46A aircraft. The program is procuring four RDT&E aircraft for integration and demonstration of capability which will ultimately be operationally fielded. During production and with the recent program of record increase, the program plans to procure 179 production aircraft through 13 lots (+ 4 EMD aircraft) for a total of 183 aircraft. The KC-46A program held a MS C DAB on 12 Aug 2016 and received approval to enter Low Rate Initial Production (LRIP). The program has awarded LRIP lots 1-11 with lot 11 put on contract 21 Nov 2024 bringing total number of aircraft to 154 on the production contract. The first DD250 was signed on 10 Jan 2019. The Air Force delivered the first KC-46A to McConnell Air Force Base on 25 Jan 2019. As of 18 Jun 2025, 94 aircraft have been delivered to the Air Force via DD250.

Initial sustainment effort is provided via Interim Contractor Support (ICS) as the program is transitioning to organic sustainment. KC-46A funding also supports Training Systems, Support Equipment, Operational Site Activation, Depot Stand-Up, Alternate Mission Equipment (AME), Direct Mission Support, Program Support Costs (PSC)

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0401221F / <i>KC-46A Tanker Squadrons</i>
activities, Other Government Costs (OGC), various studies and analyses, future tanker planning activities, long lead items, and potential Diminishing Manufacturing Sources (DMS) and obsolescence planning activities. In addition to its air refueling capability, the KC-46 is planned to be a key joint and coalition communications node. The KC-46A will provide the capability to fuel joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger, and aeromedical evacuation capabilities. The KC-46A will operate in day, night, and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. joint, allied, and coalition forces. The KC-46A will have communication, navigation, and surveillance equipment for world-wide operations; the capability to perform missions in chemical and biological environments; the ability to operate in up to medium threat environments with self-defense/protection (both active and passive) capabilities; and the necessary battle space awareness to mitigate survivability threats. Mobility Air Forces (MAF) Connectivity is a requirement for Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) connectivity capability on the KC-46A to provide the communications resiliency and bandwidth via integration of Multi-band, Multi-orbit SATCOM terminal and array installation to allow the selective movement between satellite constellations, resulting in over 20 Mbps required for the data rate pace needed for C2 in a near-peer fight. This will enable maximum MAF connectivity and real-time secure command and control for aircrew situational awareness. The Aircrew Training System (ATS) and Maintenance Training System (MTS) provide critical capabilities for KC-46A aircrew. The ATS contract will provide Aircrew Training Devices (ATDs), to include Weapon System Trainers (WSTs), Boom Operator Trainers (BOTs), Fuselage Trainers (FuTs), Part-Task Trainers (PTTs), and emerging technologies to meet validated Air Mobility Command (AMC) aircrew training requirements at each Main Operating Base (MOB) and the Formal Training Unit (FTU). The ATS contract will also support Distributed Mission Operations (DMO), provide aircrew instruction, develop courseware, provide logistics support, acquire a technical data package to support future competition efforts, and manage training device/courseware concurrency with the aircraft. Option year nine was put on Un-definitized Contract Action (UCA) 10 Oct 2023. Option year nine definitized in March 2024. Option 10 was awarded on 14 Aug 2024. The MTS focus is on designing, developing, testing, producing, and fielding an optimized training system for KC-46A maintainers by integrating various forms of training media and Maintenance Training Devices (MTDs) into a "blended" solution. This blended solution includes the appropriate mix of hardware and software, "high-fidelity" Augmented Hardware Training Devices (AHTDs), Part Task Trainers (PTTs), Interactive Multimedia Instruction (IMI), and emerging technologies to meet validated AMC maintenance training requirements. Tanker Production Extension initiates planning, risk reduction, Request for Proposal (RFP) Development, and other pre-production activities (including obsolescence mitigation) to acquire additional aircraft upon completion of on-going KC-46 production. This requirement supports performance of a full financial audit as required by U.S.C. Title 10, Subtitle A, Part I, Chapter 9A, Sec 240-D, Financial Improvement and Audit Remediation (FIAR) Plan. This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F,		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0401221F I KC-46A Tanker Squadrons				
0606398F. In FY 2024 \$3.058 million was expended for civilian pay expenses in this program element, and in FY 2025 \$3.823 million is forecast for civilian pay expenses in this program element.						
The FY 2026 request was reduced by \$1.681 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		124.662	93.620	58.744	0.000	58.744
Current President's Budget		78.704	77.804	145.434	0.000	145.434
Total Adjustments		-45.958	-15.816	86.690	0.000	86.690
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		-37.798	-15.816			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-5.000	0.000			
• SBIR/STTR Transfer		-3.084	0.000			
• Other Adjustments		-0.076	0.000	86.690	0.000	86.690
Change Summary Explanation						
FY 2024 funding request reduced by \$45.958 million due Congressional Directed Reductions of \$37.798 million for Take Off and Landing Data (TOLD) execution delays (\$3.214 million), KC-46 test funding ahead of need (\$7.384 million), Long Term Test Aircraft Maintenance Support (LTTAMS) carryover (\$10.000 million), Boom Threshold Actuator Redesign (BTAR) carryover (\$3.400 million) and Trainer development funding ahead of need (\$13.800 million) and \$5.000 million Above Threshold Reprogramming, \$3.084 million for Small Business Innovative Research System (SBIRS) program.						
FY 2025 funding was reduced by \$15.816 million due to Congressional Directed Reductions for Air Refueling Airplane Simulator Qualification (ARASQ) (\$0.616 million), Mobility Air Force Connectivity (\$0.500 million), Aircrew Training System (ATS) Remote Vision System (RVS) (\$10.5 million) and Pegasus Advanced Communications Suite (PACS) (\$4.2 million).						
FY 2026 funding request was increased by \$86.690 million to support continuation and expansion of KC-46A Block I Pegasus Advanced Communications Suite (PACS) EMD activities, LTTAMS follow on activities and test support and TOLD program development, and Tanker Production Extension activities.						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 650013 / Tanker Production Extension			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
650013: Tanker Production Extension	0.000	0.000	0.000	23.828	0.000	23.828	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2026, PE 0605164F, Air Refueling Capability Modernization, Project 645164F, Continued Tanker Recapitalization RDT&E efforts transferred to PE 0401221F, KC-46A Tanker Squadrons, Project 650013, Tanker Production Extension in order to maintain continuous KC-135 recapitalization and ensure greater transparency.

A. Mission Description and Budget Item Justification

When KC-46A procurement completes, the Air Force will maintain continuous recapitalization of the KC-135 fleet by procuring additional tanker aircraft under the Tanker Production Extension project. The Air Force plans to use the KC-46A Capability Production Document as the most affordable requirements basis for Tanker Production Extension.

Acquisition strategy approval is anticipated in FY 2025, followed by acquisition documentation development, market research, detailed acquisition planning, RFP development, future tanker development, risk and issue assessment, risk and issue mitigation, and other studies and analysis in FY 2026. The Air Force anticipates that Diminishing Manufacturing Sources & Materiel Shortages (DMSMS) and obsolescence will be the top issues.

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

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.000 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.000 million is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: Support	0.000	0.000	23.828	0.000	23.828
Description: Tanker Production Extension Planning and Preparation to include acquisition documentation development, RFP development, risk and issue assessment, and risk and issue mitigation. This is not a new start. This thrust was funded in PE 0605164F, Air Refueling Capability Modernization, Project 645164F, Continued Tanker Recapitalization RDT&E. Efforts were transferred to PE 0401221F, KC-46A Tanker Squadrons, Project 650013, Tanker Production Extension.					
FY 2025 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons		Project (Number/Name) 650013 / Tanker Production Extension		
B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
N/A FY 2026 Base Plans: Develop acquisition documentation, develop and release RFP, assess risks and issues, and mitigate risks and issues. FY 2026 OOC Plans: N/A FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to transfer of efforts from PE 0605164F, Air Refueling Capability Modernization, Project 645164F, Continued Tanker Recapitalization RDT&E to Project 650013 and ramping up of Tanker Production Extension activities.						
Accomplishments/Planned Programs Subtotals		0.000	0.000	23.828	0.000	23.828
C. Other Program Funding Summary (\$ in Millions)						
N/A						
Remarks						
D. Acquisition Strategy						
Tanker Production Extension project's acquisition strategy approval is anticipated in FY 2025. Its requirements basis is expected to be the KC-46A Capability Production Document.						

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 650013 / Tanker Production Extension					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Tanker Production Extension Direct Cite Authority for Civ Pay	RO	Not Specified: TBD : TBD	0.000	0.000	Oct 2023	0.000	Oct 2024	11.200	Oct 2025	-		11.200	-	-	-
Tanker Production Extension Direct Mission Support	Various	Not Specified: TBD : TBD	0.000	0.000	Oct 2023	0.000	Oct 2024	12.628	Oct 2025	-		12.628	-	-	-
Subtotal			0.000	0.000		0.000		23.828		-		23.828	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		0.000		23.828		-		23.828	-	-	N/A
Remarks															
In FY 2026, PE 0605164F, Air Refueling Capability Modernization, Project 645164F, Continued Tanker Recapitalization RDT&E efforts were transferred to PE 0401221F, KC-46A Tanker Squadrons, Project 650013, Tanker Production Extension in order to maintain continuous KC-135 recapitalization.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 5					PE 0401221F / KC-46A Tanker Squadrons			650013 / Tanker Production Extension				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Tanker Production Extension																												
Industry Engagement																												
RFP Development																												
DMSMS Mitigation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 650013 / Tanker Production Extension

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Tanker Production Extension</i>				
Industry Engagement	1	2026	3	2026
RFP Development	1	2026	3	2026
DMSMS Mitigation	1	2026	2	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 651120 / Pegasus Capability Improvements			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
651120: Pegasus Capability Improvements	0.000	49.300	53.809	81.186	0.000	81.186	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0401221F, project 651120, Block II Risk Reduction (RR) Study, is a new start.

A. Mission Description and Budget Item Justification

The KC-46A will provide the capability to fuel joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger, and aeromedical evacuation capabilities. The KC-46A will operate in day/night and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. joint, allied, and coalition forces. The KC-46A will have communication, navigation, and surveillance equipment for worldwide operations; the capability to perform missions in chemical and biological environments; the ability to operate in up to medium threat environments with self-defense/ protection (both active and passive) capabilities; and the necessary battlespace awareness to mitigate survivability threats.

The dynamics and mission urgency of the post-production (post-DD-250) environment require the program to maintain a flexible and responsive posture to support a broad range of mission support needs. The KC-46A will continue to identify, design, develop, integrate, verify, certify, produce, install, field, and sustain a comprehensive range of non-recurring and recurring post-production, air vehicle enhancements and field support needs. These needs may originate from programmed Mobility Air Forces (MAF) requirements, Combatant Commander Joint or Urgent Operational Needs (JUON/UON), non-programmed Federal Aviation Administration (FAA) directives, requirements identified and supported by HHQ Enterprise Capability Collaboration Teams (i.e., High Value Airborne Asset [HVAA], Air Superiority 2030, and Multi-Domain Command and Control [MDC2]), or correction of field deficiencies.

The KC-46A will continue to develop, field, and sustain warfighter capabilities to meet evolving threats and mission support requirements through Block or discrete modification or modernization programs depending on mission urgency, available funding, and programmatic and technical risks. Post-production requirements can include but will not be limited to avionics and structural systems/ architecture and subsystem updates, general mission equipment updates and procurement, general sustainment support, studies and analyses, future Tanker requirements simulation and training, and correction of field deficiencies. The next communication Block modernization upgrade requirements are the Block 2 modernization program and MAF connectivity. These capabilities entail the integration of secure communication, navigation, informational systems and providing advanced connectivity and communication capability.

Mobility Air Forces (MAF) Connectivity is a requirement for Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) connectivity capability on the KC-46A to provide the communications resiliency and bandwidth via integration of Multi-band, Multi-orbit SATCOM terminal and array installation to allow the selective movement between satellite constellations, resulting in higher Mbps required for the data rate pace needed for C2 in a near-peer fight. This will enable maximum MAF connectivity and real-time secure command and control for aircrew situational awareness.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 651120 / Pegasus Capability Improvements

The KC-46A Block 1 Pegasus Advanced Communications Suite (PACS) program will satisfy Department of Defense (DoD), National Security Agency (NSA), Department of Transportation (DoT), and USAF mandates by upgrading legacy Tactical Data Link 16, Beyond Line-of-Sight (BLOS) Ultra High Frequency (UHF) Line-of-Sight (LOS) capabilities with next-generation Link 16 terminals and UHF secure, global, BLOS and anti-jam LOS satellite voice communications capabilities for the KC-46A weapon system. PACS enables compatibility and interoperability with current and planned future joint and allied forces while simultaneously increasing the survivability of secure global voice and data communications capabilities between Mobility AirForce (MAF) C2 agencies and MAF aircraft operating worldwide in or near contested environments.

Project 651120 funding will also support Program Support Costs (PSC) activities, test support, mission planning capability development and various studies and analyses.

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, and 0606398F. In FY 2024 \$3.058 million was expended for civilian pay expenses in this program element, FY 2025 \$3.823 million is forecast for civilian pay expenses.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: KC-46A Block 1 Pegasus Advanced Communications Suite (PACS) Description: The KC-46A Block 1 Pegasus Advanced Communications Suite (PACS) program will satisfy Department of Defense (DoD), National Security Agency (NSA), Department of Transportation (DoT), and USAF mandates by upgrading legacy Tactical Data Link 16, Beyond Line-of-Sight (BLOS) Ultra High Frequency (UHF) Line-of-Sight (LOS) capabilities with next-generation Link 16 terminals and UHF secure, global, BLOS and anti-jam LOS satellite voice communications capabilities for the KC-46A weapon system. PACS enables compatibility and interoperability with current and planned future joint and allied forces while simultaneously increasing the survivability of secure global voice and data communications capabilities between Mobility Air Force (MAF) C2 agencies and MAF aircraft operating worldwide in or near contested environments. FY 2025 Plans: Continuation of Block 1 PACS EMD program and associated contracting efforts. FY 2026 Base Plans: Continuation of Block 1 PACS EMD program and associated contracting efforts. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to increased PACS developmental program activities.	41.156	20.984	24.751	-	24.751
Title: Block II Risk Reduction (RR) Study Description: The KC-46 II RR Study follows the Block I PACS program. KC-46 Block 2 is a communication and navigation systems upgrade that enables compliance with information technology modernization and	0.000	0.000	4.871	-	4.871

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons		Project (Number/Name) 651120 / Pegasus Capability Improvements		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
security requirements, enables integration of the KC-46 on-board information systems with the Joint All-Domain Command and Control (JADC2) architecture and increases the future upgradability and system capability.						
FY 2025 Plans: N/A						
FY 2026 Base Plans: Begin Block II Risk Reduction Study efforts and associated contracting efforts						
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to ramp up of contracting activities to support contract award.						
Title: Mobility Air Forces (MAF) Connectivity		0.000	0.500	7.150	-	7.150
Description: Mobility Air Forces (MAF) Connectivity Efforts: Aircraft Connectivity is a requirement for Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) connectivity capability on the KC-46A. This will enable maximum MAF connectivity and real-time secure command and control for aircrew situational awareness.						
FY 2025 Plans: Initial planning of MAF Connectivity capability for the KC-46A to include but not limited to real-time secure command and control for aircrew situational awareness.						
FY 2026 Base Plans: Development integration of MAF Connectivity based on study done previous year.						
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to ramp up of MAF Connectivity contracting activities.						
Title: Aircraft Product Development		2.086	4.406	17.989	-	17.989
Description: Modification efforts to the KC-46A will be conducted to include the following types of activities: Take Off and Landing (TOLD), 801X Storage Container						
FY 2025 Plans: Transitioning from ACAT I to Mods						
FY 2026 Base Plans: Transitioning from ACAT I to Mods						
FY 2025 to FY 2026 Increase/Decrease Statement:						

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons		Project (Number/Name) 651120 / Pegasus Capability Improvements	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Funding increase due to ramp up of modifications and support activities.					
Title: Government Test Description: KC-46A testing and planning support of development & operational test, FAA & military certification, and aircraft qualification activities. FY 2025 Plans: Includes Long-Term Test and Maintenance Support (LTTAMS), KC-46 Test Aircraft Maintenance Support (KTAMS), Consumables and 412th Support efforts. FY 2026 Base Plans: Transitioning from ACAT I to Mods FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to transitioning from ACAT I BPAC to Mods BPAC" to "Funding increased due to transitioning from MDAP Project (KC-46 RDT&E) to ACAT II Project (Pegasus Capability Improvements).	1.000	19.245	21.554	-	21.554
Title: Support Description: Studies and analyses to support planning activities for future initiatives for upgrades, future tanker efforts, test support, test execution and other Program Support Costs. FY 2025 Plans: Continuation of Studies and analyses to support planning activities for future initiatives for upgrades, future tanker efforts, test support, test execution and other Program Support Costs. FY 2026 Base Plans: Studies, analyses and planning activities to support future upgrade initiatives. FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to Blk II study schedule slip.	5.058	8.674	4.871	-	4.871
Accomplishments/Planned Programs Subtotals	49.300	53.809	81.186	-	81.186

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• APAF 05 41221F/ KC046A: KC-46A Tanker	0.000	24.954	19.344	-	19.344	-	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025	
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 651120 / Pegasus Capability Improvements			
C. Other Program Funding Summary (\$ in Millions)											
			FY 2026	FY 2026	FY 2026					Cost To	
Line Item	FY 2024	FY 2025	Base	OOB	Total	FY 2027	FY 2028	FY 2029	FY 2030	Complete	Total Cost
Remarks											
D. Acquisition Strategy											
The KC-46A Post-Production Change Management (PPCM) construct is comprised of processes and tools, specifically tailored to a broad spectrum of post-production requirements to support the KC-46A enterprise (e.g. weapon system, sustainability, training devices). PPCM is designed to leverage competition when applicable and emphasize configuration management and discrete cost accounting methodologies. KC-46A PPCM oversight will promote competition throughout the life cycle of the KC-46A fleet. All KC-46A post-production requirements and associated acquisition strategies will be carefully managed, reviewed, and approved at the appropriate levels by the KC-46A Division and/or Mobility Directorate senior functional leaders. PPCM requirements will employ multiple contract-types, tailored to the requirement and documented in discrete Acquisition Strategy Panel briefings, to minimize cost, technical, and schedule execution risks and ensure on-time deliverables. In addition, all ACAT-level programs, deriving from the PPCM process, will follow Department of Defense (DoD) Directive 5000.01 and DoD Instruction 5000.02 guidelines and directives, as applicable, to ensure management controls--commensurate with the scope and cost of the supported requirement.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force **Date:** June 2025

Appropriation/Budget Activity **R-1 Program Element (Number/Name)** **Project (Number/Name)**
 3600 / 5 PE 0401221F / KC-46A Tanker Squadrons 651120 / Pegasus Capability Improvements

Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
KC-46A Capability Upgrades (to include modification and modernization)	SS/CPFF	The Boeing Company : Seattle, WA	0.000	43.217	May 2024	20.984	Mar 2025	21.751	Oct 2025	-		21.751	-	-	-
KC-46A Take off and Landing Data (TOLD)	SS/CPFF	The Boeing Company : Seattle, WA	0.000	0.000	May 2024	0.000	May 2025	8.055	Nov 2025	-		8.055	-	-	-
KC-46A Block II Risk Reduction Study	SS/TBD	The Boeing Company : Seattle, WA	0.000	0.000	Dec 2024	0.000	May 2025	4.871	Sep 2026	-		4.871	-	-	-
KC-46A Mobility Air Forces Connectivity Efforts (MAF)	SS/TBD	The Boeing Company : Seattle, WA	0.000	0.000	Sep 2024	0.500	Apr 2025	7.150	May 2026	-		7.150	-	-	-
KC-46A 801X Storage Container	SS/TBD	TBD : TBD	0.000	0.000	Dec 2024	0.000	Dec 2024	4.349	Dec 2025	-		4.349	-	-	3.700
KC-46A Studies and Analyses	SS/CPIF	The Boeing Company : Seattle, WA	0.000	0.000		4.851	Apr 2025	0.522	Dec 2025	-		0.522	-	-	-
KC-46A Boom Control Logic	SS/CPAF	The Boeing Company : Seattle, WA	0.000	0.000		4.406	Jul 2025	9.063	Oct 2025	-		9.063	-	-	-
Subtotal			0.000	43.217		30.741		55.761		-		55.761	-	-	N/A

Remarks

Target Value is TBD as PACS Block II Risk Reduction Study has not awarded. Projected award in FY 2026.

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority for Civilian Pay	RO	KC-46 Program Office : Dayton, W-P AFB, OH	0.000	3.058	Oct 2023	3.823	Oct 2024	3.929	Oct 2026	-		3.929	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 651120 / Pegasus Capability Improvements					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	KC-46 Program Office : Dayton, W-P AFB, OH	0.000	2.000	Dec 2024	0.000	Mar 2025	0.942	Feb 2026	-		0.942	-	-	-
Subtotal			0.000	5.058		3.823		4.871		-		4.871	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
KC-46A testing and planning support of development & operational test, FAA & military certification, and aircraft qualification activities	Various	Various : Edwards AFB, CA	0.000	1.025	Oct 2024	14.537	Dec 2024	8.694	Oct 2025	-		8.694	-	-	-
KC-46A Long Term Test Aircraft Maintenance Support	SS/CPAF	The Boeing Company : Edwards AFB, CA	0.000	0.000	Sep 2024	4.708	Sep 2025	-		-		-	-	-	-
KC-46A KTAMS	C/FFP	TBD : TBD	0.000	-		-		11.860	Jan 2026	-		11.860	-	-	-
Subtotal			0.000	1.025		19.245		20.554		-		20.554	-	-	N/A
Remarks															
LTTAMS follow-on efforts will be funded out of Project (Pegasus Capability Improvements).															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	49.300		53.809		81.186		-		81.186	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 5					PE 0401221F / KC-46A Tanker Squadrons			651120 / Pegasus Capability Improvements				

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Pegasus Capability Improvements																												
KC-46A Block I PACS																												
LLTAMS																												
Block II Risk Reduction Study																												
MAF Connectivity																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 651120 / Pegasus Capability Improvements

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Pegasus Capability Improvements</i>				
KC-46A Block I PACS	2	2024	2	2028
LLTAMS	4	2024	2	2026
Block II Risk Reduction Study	4	2026	4	2027
MAF Connectivity	4	2025	3	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 655271 / KC-46 RDT&E			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
655271: KC-46 RDT&E	147.432	29.404	23.995	40.420	0.000	40.420	-	-	-	-	-	-
Quantity of RDT&E Articles	4	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Replacement of the legacy tanker fleet will take place in several stages. The initial tanker replacement increment of KC-46As will replace roughly a third of the current capability. Future programs will ultimately recapitalize the entire tanker fleet over a period of more than 30 years. The Air Force completed an Analysis of Alternatives (AoA) in Apr 2006 to determine the most appropriate strategy to recapitalize the aging fleet of aerial refueling aircraft. Based on this analysis, the Air Force concluded a strategy of full and open competition to select a commercial derivative replacement tanker aircraft would result in a best value tanker contract. To initiate the first phase of the tanker replacement, the KC-46A program released a final Request for Proposal (RFP) on 24 Feb 2010, and entered source selection on 9 Jul 2010. The KC-46A program held a Milestone B (MS B) Defense Acquisition Board (DAB) on 23 Feb 2011, received approval to enter Engineering and Manufacturing Development (EMD) from the Undersecretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) on 24 Feb 2011, and awarded the KC-46A EMD contract to Boeing on 24 Feb 2011 to develop and procure 179 KC-46 aircraft. The program is procuring four RDT&E aircraft for integration and demonstration of capability which will ultimately be operationally fielded. During production, the program plans to procure 183 aircraft throughout 13 lots. The KC-46A program held a MS C DAB on 12 Aug 2016 and received approval to enter Low Rate Initial Production (LRIP). The program awarded LRIP Lots 1 and 2 on 18 Aug 2016, LRIP Lot 3 on 27 Jan 2017, LRIP Lot 4 on 10 Sep 2018, and LRIP Lot 5 on 27 Sep 2019. Lot 6 awarded on 12 Jan 2021, Lot 7 awarded on 20 Jan 2021, Lot 8 awarded 31 Aug 2022, Lot 9 awarded 27 Jan 2023, Lot 10 was converted to LRIP on 17 Nov 2023 and was put on contract 28 Nov 2023, and Lot 11 was awarded on 21 Nov 2025 bringing the total number of aircraft on production contract to 154. Initial sustainment effort is provided via Interim Contractor Support (ICS) as the program is transitioning to organic sustainment. KC-46A funding also supports Training Systems, Support Equipment, Operational Site Activation, Depot Stand-Up, Alternate Mission Equipment (AME), Direct Mission Support, Program Support Costs (PSC) activities, Other Government Costs (OGC), various studies and analyses, future tanker planning activities, long lead items, and potential Diminishing Manufacturing Sources (DMS) and obsolescence planning activities.

The KC-46A has been validated at the Joint Requirements Oversight Council (JROC) multiple times from Nov 2004 to Apr 2024, and is a critical force extender in our Joint Warfighting Concept. In addition to its air refueling capability, the KC-46 is planned to be a key joint and coalition communications node. The KC-46A will provide the capability to fuel joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger, and aeromedical evacuation capabilities. The KC-46A will operate in day, night, and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. joint, allied, and coalition forces. The KC-46A will have communication, navigation, and surveillance equipment for world-wide operations; the capability to perform missions in chemical and biological environments; the ability to operate in up to medium threat environments with self-defense/protection (both active and passive) capabilities; and the necessary battle space awareness to mitigate survivability threats. The first DD250 was signed on 10 Jan 2019. The Air Force delivered the first KC-46A to McConnell Air Force Base on 25 Jan 2019. As of 18 Jun 2025, 94 aircraft have been delivered to the Air Force via DD250.

The Aircrew Training System (ATS) and Maintenance Training System (MTS) are being procured using KC-46A funding. The ATS contract was awarded on 1 May 2013 to Flight Safety Services Corporation, now known as Flight Safety International - Defense. The ATS contract will provide Aircrew Training Devices (ATDs), to include Weapon System Trainers (WSTs), Boom Operator Trainers (BOTs), Fuselage Trainers (FuTs), Part-Task Trainers (PTTs), and emerging technologies to meet validated Air Mobility Command (AMC) aircrew training requirements at each Main Operating Base (MOB) and the Formal Training Unit (FTU). The ATS contract will also support

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025				
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 655271 / KC-46 RDT&E				
Distributed Mission Operations (DMO), provide aircrew instruction, develop courseware, provide logistics support, acquire a technical data package to support future competition efforts, and manage training device/courseware concurrency with the aircraft. The first eight ATS production options were exercised on 19 Aug 2015, 31 May 2017, 30 Apr 2018, 31 Mar 2019, 27 Feb 2020, 4 Mar 2021, 24 Feb 2022, and 15 Nov 2022. Option nine was put on Un-definitized Contract Action (UCA) on 10 Oct 2023. Definitization took place in March 2024. Option 10 was awarded 14 Aug 2024. The MTS contract was awarded 6 Jul 2016 to The Boeing Company. The MTS acquisition focuses on designing, developing, testing, producing, and fielding an optimized training system for KC-46A maintainers by integrating various forms of training media and Maintenance Training Devices (MTDs) into a "blended" solution. This blended solution includes the appropriate mix of hardware and software, "high-fidelity" Augmented Hardware Training Devices (AHTDs), Part Task Trainers (PTTs), Interactive Multimedia Instruction (IMI), and emerging technologies to meet validated AMC maintenance training requirements. The KC-46A Program is responsible for the development, testing, and production of a drogue-equipped, wing-mounted refueling system to meet Capability Production Document (CPD) thresholds and objectives for simultaneous refueling of two probe-equipped receivers. The system can be installed or removed from the KC-46A as mission needs dictate. Project 655271 funding will support 801X storage container along with various capability studies to include Boom Control Logic and Diphase studies. This requirement supports performance of a full financial audit as required by U.S.C. Title 10, Subtitle A, Part I, Chapter 9A, Sec 240-D, Financial Improvement and Audit Remediation (FIAR) Plan. This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, and 0606398F. In FY 2024 \$0.000 million was expended for civilian pay expenses in this program element, FY 2025 \$0.000 million is forecast for civilian pay expenses.							
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Title: KC-46A Aircraft Product Development Description: EMD activities will be conducted to include the following types of activities: develop a commercial 767-2C aircraft upon which the KC-46 is based; develop the KC-46A military capability and integrate it into the aircraft; build four EMD aircraft; procure live fire assets; procure required Government Furnished Equipment (GFE); procure simulator and maintenance data; develop technical manuals and Type 1 training; and conduct development and operational testing. FY 2025 Plans: Study, analyze, test and update documentation to certify and increase KC-46A capability for aerial refueling (AR) onload. Product refinement, studies, ground, and flight testing in support of the KC-46A weapon system to include but not limited to Remote Vision System (RVS), receiver certifications, simulator data collection,			14.523	7.558	20.022	-	20.022

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 655271 / KC-46 RDT&E			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
completion of IOT&E events/reporting, and Take Off and Landing Data (TOLD) and boom telescope actuator redesign (BTAR) Engineering Change Proposal (ECP) efforts. FY 2026 Base Plans: Continuation of product refinement, studies, ground, and flight testing in support of the KC-46 weapon system to include receiver certifications, simulator data collection, and completion of IOT&E events/reporting. Incrementally fund boom telescope actuator redesign (BTAR) Engineering Change Proposal (ECP) efforts and solution for Remote Vision System (RVS), and Take Off and Landing Data (TOLD) to address deficiencies and improve capability. Study, analyze, test and update documentation in order to certify and increase KC-46 capability for aerial refueling (AR) onload. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to ramp up of Boom Control Logic efforts and contracting activities.						
Title: KC-46A Trainer Product Development - Aircrew Training System (ATS) Description: Trainer development activities will be conducted to include the following types of activities: development and procurements of Aircrew Training Devices (ATDs), courseware, and associated support equipment. FY 2025 Plans: Continuation of Trainer development activities to include but not limited to the development and procurements of ATDs, courseware, and associated support equipment, Enhanced Remote Vision System (eRVS), Boom Threshold Actuator Redesign (BTAR), Night Vision (NVG), Large Aircraft InfraRed Counter Measures (LAIRCM), RVS 2.0, and Take Off and Landing Data (TOLD) Upgrade Development. FY 2026 Base Plans: Continuation of eRVS Upgrade and ATS Boom Upgrade. FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to increased contracting activities and requirements for eRVS contract.		0.908	0.131	0.737	-	0.737
Title: KC-46A Test & Evaluation Description: Test & Evaluation (T&E) activities will be conducted to include the following types of activities: Development Test & Evaluation (DT&E), Operational Test & Evaluation (OT&E), Tanker Qualification, Receiver Certifications, Live Fire Test & Evaluation (LFT&E), Federal Aviation Administration (FAA) support, and other test planning and organizational support.		10.217	13.488	19.337	-	19.337

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force			Date: June 2025			
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons		Project (Number/Name) 655271 / KC-46 RDT&E		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
FY 2025 Plans: Continuation of T&E activities to include but not limited to DT&E, OT&E, Tanker Qualification, Receiver Certifications, Live Fire Test & Evaluation (LFT&E), Federal Aviation Administration (FAA) support, and other test planning and organizational support.						
FY 2026 Base Plans: Continued Test and Evaluation activities to include but not limited to Development Test & Evaluation, Operational Test & Evaluation, Tanker Qualification, Receiver Certifications, Live Fire Test & Evaluation (LFT&E).						
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to ramp up of contracting activities for Long Term Test Aircraft Maintenance System (LTTAMS).						
Title: KC-46A Support		3.756	2.818	0.324	-	0.324
Description: Development, integration, and demonstration of the KC-46A mission planning capability. In addition, studies and analysis to support planning activities for future efficiency and energy efficiency initiatives, business case analyses, and miscellaneous Program Office support and planning. Also includes requirements such as travel, office supplies, training courses, and service contracts.						
FY 2025 Plans: Continuation of Development, integration, and demonstration of the KC-46A mission planning capability. Studies and analysis to support planning activities for future efficiency and energy efficiency initiatives, business case analyses, and future tanker planning.						
FY 2026 Base Plans: Continue program office support and planning to include but not limited to studies and analysis for future efficiency and energy efficiency initiatives, business case analyses, and future tanker planning.						
FY 2025 to FY 2026 Increase/Decrease Statement: Funding decreased due to reduction in support planning activities.						
Accomplishments/Planned Programs Subtotals		29.404	23.995	40.420	-	40.420

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 655271 / KC-46 RDT&E			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• APAF 02 Line Item KC046A: KC-46A Tanker	2,783.927	2,779.618	2,799.633	-	2,799.633	-	-	-	-	-	-
• APAF 06 Line Item 000999: Initial Spares	159.072	206.754	352.540	-	352.540	-	-	-	-	-	-
Remarks											
D. Acquisition Strategy											
The KC-46A Program acquisition strategy is to procure an existing commercial, Federal Aviation Administration (FAA) certified aircraft modified to meet USAF requirements. The KC-46A program released a final RFP on 24 Feb 2010, and entered source selection on 9 Jul 2010. The KC-46A program held a Milestone B (MS B) Defense Acquisition Board (DAB) on 23 Feb 2011, received approval to enter EMD from the Undersecretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) on 24 Feb 2011, and awarded the KC-46A contract to Boeing on 24 Feb 2011 to develop and procure 179 KC-46A aircraft. The KC-46A contract procurement was conducted via a full and open competition per Federal Acquisition Regulation (FAR) Part 15 and resulted in a FY 2011 Engineering and Manufacturing Development (EMD) Fixed Price Incentive Firm (FPIF) contract. The EMD phase is developing, building, and testing four KC-46A aircraft, and will qualify the KC-46A as a tanker and certify pairings with receiver aircraft.											
The MS B acquisition strategy planned for two LRIP lots followed by 11 Full-Rate Production (FRP) lots for a total aircraft procurement of 175 production aircraft. An update to the acquisition strategy occurred in support of MS C that increased LRIP from two to four lots, with the total aircraft buy remaining at 175 production aircraft. A Dec 2017 USD(AT&L) Acquisition Decision Memorandum expanded LRIP to include Lot 5. Another Program Deviation Report was submitted on June 8, 2020, to declare a breach to the Full Rate Production Decision. A new Acquisition Program Baseline (APB) dated October 19, 2020 was approved, and a new ADM dated October 20, 2020 re-designated Lots 6 through 9 as LRIP. During Production and with the recent program of record increase, the program now plans to procure 179 Production aircraft through 13 lots (+4 EMD aircraft) for a grand total of 183 aircraft.											
LRIP now consists of two Firm Fixed Price (FFP) and seven FFP Not to Exceed (NTE) options (LRIP-1 Qty 7, LRIP-2 Qty 12, LRIP-3 Qty 15, LRIP-4 Qty 18, LRIP-5 Qty 15, LRIP-6 Qty 12, LRIP-7 Qty 15, LRIP-8 Qty 15, LRIP-9 Qty 15). This will be followed by four (Lots 10-13) FFP production options [via NTE values + Economic Price Adjustment (EPA)]. LRIP Lots 1 and 2 were awarded Aug 2016, LRIP Lot 3 was awarded Jan 2017, LRIP Lot 4 was awarded Sep 2018, LRIP Lot 5 was awarded Sep 2019, and LRIP Lots 6 and 7 were awarded Jan 2021. LRIP Lot 8 was awarded August 2022 and LRIP Lot 9 was awarded January 2023. Lot 10 was converted to LRIP on 17 Nov 2023 and was put on contract 28 Nov 2023. Lot 11 awarded 21 Nov 2024.											
The Aircrew Training System (ATS) acquisition strategy is to provide Aircrew Training Devices (ATDs), and associated support structure, to each Main Operating Base (MOB) and the Flying Training Unit (FTU). The ATS EMD FPIF contract with production options was conducted via a full and open competition per FAR Part 15, and awarded to FlightSafety Services Corporation in FY 2013. The ATS EMD phase will develop and procure ATDs; and will be supported with courseware, Training System Support Center, the technical data package, and support equipment to ensure system availability and concurrency with the aircraft. The first eight ATS production											

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 655271 / KC-46 RDT&E
options were exercised on 19 Aug 2015, 31 May 2017, 30 Apr 2018, 31 Mar 2019, 2 Sep 2020, 4 Mar 2021, 23 May 2022, and 2 February 2023. Option year nine was put on Un-definitized Contract Action (UCA) 10 Oct 2023. Option nine definitized in March 2024. Option ten definitized on 10 Aug 2024. The Maintenance Training System (MTS) acquisition strategy is to acquire Maintenance Training Devices (MTDs), and associated support structure, for two AMC active duty Regional Maintenance Training Facilities. The MTS EMD FFP contract with production options was conducted via a full and open competition per FAR Part 15, and awarded to The Boeing Company in FY 2016. The MTS EMD phase will develop and procure MTDs; and will be supported with courseware, Training System Support Center, the technical data package, and support equipment to ensure system availability and concurrency with the aircraft. The long-term support concept for the KC-4A is organic two-level maintenance (2LM): organization level (O-level) and depot level (D-level). For the purposes of this program, all maintenance other than O-level shall be referred to as D-level. The product support strategy will initially employ Interim Contractor Support (ICS) before transitioning to a 100% organically-managed maintenance and supply support capability. Performance Based Logistics (PBL) solutions will be evaluated during EMD as viable approaches to facilitate the transition.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 655271 / KC-46 RDT&E					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
KC-46A Take Off and Landing Data (TOLD) Development Cability	SS/CPFF	The Boeing Company : Seattle, WA	0.000	8.332	May 2024	0.000	Jan 2025	0.000	May 2026	-		0.000	-	-	-
KC-46A aircraft non-recurring development, integration, and testing; 4 RDT&E tanker aircraft; and support	SS/FPIF	The Boeing Company : Seattle, WA	147.432	6.191	Aug 2024	7.468	Jul 2025	20.022	Dec 2025	-		20.022	-	-	-
KC-46A Aircrew Training System	SS/FPIF	Flight Safety Services Co : Centennial, CO	0.000	0.908	Apr 2025	0.131	Apr 2025	0.587	Dec 2026	-		0.587	-	-	-
KC-46A Maintenance Training Systems	SS/FPIF	Not specified. : TBD	0.000	0.075	Dec 2024	0.090	Mar 2025	0.150	Mar 2026	-		0.150	-	-	-
Subtotal			147.432	15.506		7.689		20.759		-		20.759	-	-	N/A
Remarks															
The KC-46A EMD contract was awarded 24 Feb 2011. The total cost represents the current Program Office Estimate (POE) which accounts for the ceiling price of the contract plus the financial and schedule risk of potential design changes for the KC-46A aircraft.															
Target value is blank for the KC-46A Aircrew Training System category since the contract is fully funded.															
FINANCIAL PERFORMANCE: The KC-46A is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, the KC-46A EMD contract is a Fixed Price Incentive Fee (FPIF) contract with progress payments. Twenty percent (20%) of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
KC-46A DMS - Digital Transformation	SS/ Various	Various : Various	0.000	2.929	Jun 2024	0.664	Apr 2025	0.000		-		0.000	-	-	-
KC-46 DMS efforts associated with FAA Mil Certification and RMF	MIPR	Various : Various	0.000	0.752	Feb 2024	2.154	Feb 2025	0.324	Feb 2026	-		0.324	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 655271 / KC-46 RDT&E					
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Continuous Monitoring Capabilities															
Subtotal			0.000	3.681		2.818		0.324		-		0.324	-	-	N/A
Remarks															
These contracts are on an as needed basis, with various contract types and performing activities.															
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
KC-46A testing and planning support of development & operational test, FAA & military certification, and aircraft qualification activities	MIPR	418th FLTS : Edwards AFB, CA	0.000	10.217	Dec 2023	10.458	Dec 2024	19.337	Dec 2025	-		19.337	-	-	-
KC-46A Long Term Test Aircraft Maintenance Support	SS/CPAF	The Boeing Company : Edwards AFB, CA	0.000	0.000	Sep 2024	0.000	Sep 2025	0.000		-		0.000	-	-	46.636
KC-46A MIDS LVT NDL TSAS	SS/CPFF	The Boeing Company : Seattle, WA	0.000	0.000	Sep 2024	3.030	Jan 2025	0.000		-		0.000	-	-	3.422
Subtotal			0.000	10.217		13.488		19.337		-		19.337	-	-	N/A
Remarks															
Integrated testing and planning activities are performed by government organizations, with some contractor technical subject matter experts and teaming with the prime contractor.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			147.432	29.404		23.995		40.420		-		40.420	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force																Date: June 2025			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 5								PE 0401221F / KC-46A Tanker Squadrons								655271 / KC-46 RDT&E			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
KC-46A																												
Initial Operational Test & Evaluation (for WARPs)																												
Government Testing for Correction of Deficiencies																												
Boom Telescope Actuator Redesign ECP																												
Aircrew Training System Development & Updates																												
Take Off and Landing Data (TOLD)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 655271 / KC-46 RDT&E

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
KC-46A				
Initial Operational Test & Evaluation (for WARPs)	1	2024	2	2024
Government Testing for Correction of Deficiencies	1	2024	1	2026
Boom Telescope Actuator Redesign ECP	1	2024	4	2027
Aircrew Training System Development & Updates	1	2024	4	2026
Take Off and Landing Data (TOLD)	1	2024	2	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0401319F / VC-25B							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	3,705.495	94.750	433.943	602.318	0.000	602.318	-	-	-	-	-	-
655250: VC-25B	3,705.495	94.750	433.943	602.318	0.000	602.318	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 425												
A. Mission Description and Budget Item Justification												
The VC-25B Program, formerly known as the Presidential Aircraft Recapitalization (PAR) Program, replaces the Presidential VC-25A fleet which faces capability gaps, rising maintenance costs, and parts obsolescence as it ages beyond 30 years. The VC-25B Program delivers two new aircraft to meet the requirements for the President to execute the duties of Head of State, Chief Executive, and Commander-in-Chief. The VC-25B Program uniquely modifies two Boeing 747-8 commercial aircraft to provide the President, staff, and guests with safe and reliable air transportation with the equivalent level of communications capability and security available in the White House. The modifications to the 747-8 aircraft include an electrical power upgrade with dual Auxiliary Power Units that are usable in flight, a mission communication system, a work and rest environment, an executive interior, military avionics, a self-defense system, independent enplaning and deplaning, and independent baggage loading. No significant changes to the existing VC-25A Concept of Operations or Concept of Employment are expected. This budget provides for Post-Milestone B (MS B) design, integration, modification, product support and test of two aircraft to make them Presidential mission ready. Funds may be used to lease test equipment, as well as address emerging and short-notice Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues. This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D. The FY 2026 request was reduced by \$1.941 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 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, and 0606398F. In FY 2024 \$5.637 million was expended for civilian pay expenses in this program element, and in FY 2025 \$6.652 million is forecast for civilian pay expenses in this program element. This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force / BA 5: System Development & Demonstration (SDD)		PE 0401319F / VC-25B				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	490.701	433.943	400.905	0.000	400.905	
Current President's Budget	94.750	433.943	602.318	0.000	602.318	
Total Adjustments	-395.951	0.000	201.413	0.000	201.413	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	-357.700	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	-33.675	0.000				
• SBIR/STTR Transfer	-4.576	0.000				
• Other Adjustments	0.000	0.000	201.413	0.000	201.413	
Change Summary Explanation						
FY 2024 funding was reduced by an overall total of \$395.951 million due to Congressional Directed Reduction of \$357.700 million for funding ahead of need, Below Threshold Reprogrammings for \$14.108 million and an Above Threshold Reprogramming for \$19.567 million, and \$4.576 million for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs.						
FY 2026 funding was increased by \$201.413 million to support acceleration initiatives for VC-25B schedule and aircraft delivery.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: VC-25B Engineering and Manufacturing Development (EMD), Product Support, & Program Support Costs (PSC)				91.260	429.887	586.588
Description: EMD includes activities such as management, integration, modification, contractor test, certification, and product support to deliver two Presidential mission-ready VC-25B Aircraft utilizing modeling and simulation, system integration labs (SILs), and mockups to assist in design/modification.						
FY 2025 Plans:						
Continue EMD activities, aircraft modification, preparation for transition to Developmental Test and Evaluation (DT&E) as well as product support activities to include but not limited to heavy maintenance and compliance planning/implementation, initial spares, support equipment, technical order publications, and airworthiness directives.						
FY 2026 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0401319F / VC-25B		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Continue EMD activities, aircraft modification, and transition to Developmental Test and Evaluation (DT&E) as well as continue product support activities to include but not limited to heavy maintenance and compliance planning/implementation, initial spares, support equipment, technical order publications, and airworthiness directives.				
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increased due to ramp up of Engineering and Manufacturing Development (EMD), Product Support, & Program Support Costs (PSC) efforts due to transition to Developmental Test and Evaluation (DT&E).				
Title: VC-25B Government Test Description: Government test activities to prepare for, oversee, and conduct test events.		3.490	4.056	15.730
FY 2025 Plans: Prepare for and conduct aircraft functional checkout to include but not limited to system integration laboratory (SIL), ground, and flight testing with the participating test organizations and contractors as the first aircraft prepared to enter Developmental Test and Evaluation (DT&E).				
FY 2026 Plans: Support DT&E activities.				
FY 2025 to FY 2026 Increase/Decrease Statement: Funding increase to support the transition from planning to implementation of DT&E activities, including ground and flight test.				
Accomplishments/Planned Programs Subtotals		94.750	433.943	602.318
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy In August 2012, the Defense Acquisition Executive (DAE), as the VC-25B Milestone Decision Authority, approved the Materiel Development Decision. The Capability Development Document (CDD) was validated by the Joint Requirements Oversight Council in November 2014. In January 2015, the Secretary of the Air Force's Determination and Findings designated the Boeing 747-8 aircraft as the airframe platform, and the DAE's Acquisition Decision Memorandum authorized Pre-Milestone (MS) B contracts aimed at improving affordability and reducing program execution risk. In February 2015, the Assistant Secretary of the Air Force for Acquisition approved a Justification and Approval designating Boeing as the sole source for Pre-MS B activities, Post-MS B design, integration, modification, and test activities. The DAE approved the initial acquisition strategy in September 2015.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0401319F I VC-25B	
MS B certification occurred in September 2016. In March 2017, the White House reaffirmed the minimum set of requirements necessary to meet Presidential mission needs; these requirements are codified in the March 2017 CDD. The DAE approved the VC-25B Acquisition Strategy and set the Acquisition Program Baseline (APB) in December 2018. The VC-25B Program integrates technologically mature subsystems into two Government furnished, commercial, Boeing 747-8 aircraft. The VC-25B Program designs, integrates, modifies, and tests two aircraft to make them Presidential Mission Ready. Boeing is the prime integrator for VC-25B development activities. The VC-25B Program has a single, sole-source, firm-fixed-price contract with multiple major contract modifications. Modifications include risk reduction activities, 747-8 commercial aircraft purchase, preliminary design, Engineering and Manufacturing Development (EMD), and product support. The contract for risk reduction activities was awarded in January 2016. The contract modification to purchase two commercial aircraft was awarded in August 2017. The contract modification for Preliminary Design was awarded in September 2017. The contract modification for EMD was awarded in July 2018. The initial contract modification for product support activities was awarded in April 2020. In April 2021, Boeing submitted an updated Integrated Master Schedule (IMS) and a formal request to extend aircraft contractual delivery dates by 12-months. In August 2021, upon updating their schedule risk assessment (SRA), Boeing submitted an updated request to the program office to extend aircraft contractual delivery dates by 17-months. This delay resulted in an APB schedule program deviation for the remaining APB milestones (First Flight, Operational Test, Required Asset Availability (RAA) for Initial Operational Capability (IOC), and RAA for Full Operational Capability (FOC)). Supported by the VC-25B Program Office SRA, the APB schedule re-baseline was approved by the DAE 28 June 2022. It extends RAA IOC and RAA FOC 24-months (objective) to 36-months (threshold) from original contractual delivery dates. In January 2024, Boeing submitted an updated Integrated Master Schedule (IMS), covering up to the first flight milestone, that extended delivery dates by 22 months. This slip to delivery dates resulted in notification of the Defense Acquisition Executive (DAE) through an Acquisition Program Baseline (APB) schedule program deviation letter. Boeing is currently working IMS updates to the remainder of the schedule from first flight through delivery. Once complete, the program office will conduct a schedule risk assessment and recommend an update to the APB to the DAE.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401319F / VC-25B				Project (Number/Name) 655250 / VC-25B					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
VC-25B EMD Contract Activities	SS/FFP	The Boeing Company : Various	3,445.639	56.706	Jun 2025	331.170	Sep 2025	276.003	Nov 2025	-		276.003	-	-	-
VC-25B Product Support Contract Activities	SS/FFP	The Boeing Company : Various	145.028	15.200	May 2025	77.199	Feb 2026	282.469	Oct 2025	-		282.469	-	-	-
Subtotal			3,590.667	71.906		408.369		558.472		-		558.472	-	-	N/A
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Direct Cite Authority Civilian Pay	Various	AFLCMC/WV : WPAFB, OH	17.807	5.637	Oct 2023	6.652	Oct 2024	7.236	Oct 2025	-		7.236	-	-	-
Subtotal			17.807	5.637		6.652		7.236		-		7.236	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
VC-25B Developmental Test and Evaluation	MIPR	412 TW, JITC : Various	16.645	3.490	Jun 2025	4.056	Jul 2025	15.730	Dec 2025	-		15.730	-	-	-
Subtotal			16.645	3.490		4.056		15.730		-		15.730	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
VC-25B Program Support Costs - Other Government Costs	Various	AFLCMC/WV : WPAFB, OH	12.699	1.239	Oct 2023	0.983	Oct 2024	6.523	Oct 2025	-		6.523	-	-	-
VC-25B Program Support Costs- Contract Services	C/T&M	AFLCMC/WV : WPAFB, OH	67.677	12.478	Jun 2025	13.883	Sep 2025	14.357	Nov 2025	-		14.357	-	-	-
Subtotal			80.376	13.717		14.866		20.880		-		20.880	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force											Date: June 2025						
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0401319F / VC-25B					Project (Number/Name) 655250 / VC-25B							
					Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals					3,705.495	94.750		433.943		602.318		-		602.318	-	-	N/A

Remarks
FY 2010-2014 RDT&E Funding (\$27.3M) was executed in PE 0401314F, Project 675355, BA07.

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0401319F / VC-25B					655250 / VC-25B			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
VC-25B																												
Aircraft Modification																												
Product Support Activities																												
Developmental Test (DT)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401319F / VC-25B	Project (Number/Name) 655250 / VC-25B	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
VC-25B				
Aircraft Modification	1	2024	1	2028
Product Support Activities	1	2024	4	2028
Developmental Test (DT)	2	2026	1	2029

Note
Engineering and Manufacturing Development (EMD), Aircraft Modification, and Product Support Activities all began prior to Q1 2024. These dates are based upon Boeing's Integrated Master Schedule (IMS) delivered to the USAF in April 2024. Due to VC-25B program acceleration initiatives, Boeing is adjusting the IMS based upon requirements alignment with the USAF. The USAF is awaiting Boeing to deliver an updated, official IMS.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0701212F I Automated Test Systems							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	10.007	21.634	30.341	0.000	30.341	-	-	-	-	-	-
6506TE: Test And Evaluation Support Budget Authority	0.000	10.007	21.634	30.341	0.000	30.341	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 6506												
A. Mission Description and Budget Item Justification												
The Automatic Test Systems (ATS) program office is responsible for developing, acquiring, delivering and sustaining ATS war-fighting capabilities for the United Stated Air Force (USAF). ATS is responsible for developing, modernizing, acquiring, and sustaining ATS to meet the user's operational needs.												
ATS Product Group consists of the following: Armament and Stores Avionics Electronic Warfare Software Loader/Verifier and Built-in-Test Radar and Identification Friend or Foe Specialized Automatic Test Systems Innovation and Digital Transformation Requirements for the Common Armament Tester - Fighters and the Aircraft Smart Weapon Test Set programs were combined and is not the Common Armament Tester -Fighters for FY24 through the sustainment of the programs.												
RDT&E (APPN 3600) funding is essential to maintain operational readiness and technological superiority for our warfighters, requiring a strategic investment in the development, modernization, and technology insertion into over 8,000 testers impacting all major commands and the Joint Force. This investment directly supports the modernization of cyber-resilient, nuclear-certified Automatic Test Systems (ATS) across a wide range of critical USAF platforms, including Armament, Bomber, Fighter/Advanced Aircraft, Mobility, Training, ISR, and SOF, safeguarding national security and ensuring mission success. These funds will also accelerate the ATS Digital Transformation initiative, integrating Digital Engineering into legacy systems to enhance agility and responsiveness to evolving threats, ultimately improving efficiency and reducing long-term costs for the Air Force. This modernization effort is a vital component of ensuring a strong and capable military prepared to meet the challenges of the 21st century.												
RDT&E (APPN 3600) funds needed for development of the Common Armament Tester-Fighters (CAT-F). This tester will ensure the readiness and security of our critical fighter platforms (F-15, F-16, and potentially A-10, F-22, and F-35) which requires investment in a modernized testing infrastructure. Currently the fragmented tester environment is vulnerable to outside forces due to not being certified or kept current on needed cyber protections. This common tester would address the critical												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0701212F I Automated Test Systems	
needs to protecting critical assets across all platforms and reduce vulnerabilities of mission critical data. The development of a common, nuclear-certified, and cyber-secure Automatic Test System (ATS) tester will significantly enhance cyber security, protect sensitive data, and streamline testing processes. This solution will also reduce the logistical burden of maintaining multiple testing systems, improving the mobility and deployment capabilities of our forces. This investment will also decrease long-term sustainment costs by consolidating tester requirements and acquiring government owned data		
Funds will be utilized to closeout remaining contract actions for the Bomber Armament Tester (BAT) is replacing six legacy testers and combining their capabilities into one tester. The Bomber Armament Tester will support the B-2, B-1 and B-52 platforms. It will ensure the USAF bomber fleet can conduct nuclear deterrence, global power projection and global strike operations to support the President of the United States and Combatant Commanders by providing a reliable, cyber secure, and sustainable tester. The tasks are to develop a common bomber armament tester and the Test Program Sets (Software, Hardware, and Documentation) to test the armament release equipment on the bombers.		
RDT&E efforts support development, testing, and producibility of the Bomber Armament Tester and Test Program Sets. The program will utilize an incremental development approach with B-2 as Increment 1, B-1 as Increment 2, and B-52 as Increment 3.		
The Common Aircraft Portable Reprogramming Equipment (CAPRE) Secure Memory Loader Verifier (SMLV) loads operational flight programs to the weapon systems. CAPRE SMLV leads the fleet on Cyber initiatives and is government owned and developed. CAPRE SMLV supports over 45 Mission Design Series (MDS) including but not limited to A-10, B-1, B-52, C-5, C-17, C-130, CV-22, F-15, F-16, H-60 and KC-46. CAPRE SMLV is also capable of supporting future MDSs		
This RDT&E effort includes developing a Network Interface Module (NIM) that provides additional cyber hardening to the CAPRE system and redesigning the current CAPRE system to adapt to the NIM. Additionally this RDT&E effort includes software development for NIM interfaces and new weapons systems moving to the CAPRE system from other MLV systems. The goal is to provide one common cyber secure MLV for the Air Force to minimize cyber vulnerabilities in weapon systems.		
RDT&E efforts support prototype development and testing of the CAT-F and Test Program Sets.		
Aircraft Smart Weapons Test Set (ASWTS) has been combined with the CAT-F The legacy testers do not have the capability to check a multitude of capabilities (such as MIL-STD-1760 signal integrity) added to the Fighter aircraft through avionics and weapons upgrades. A new ASWTS is required in order to fulfill current testing requirements not covered by the legacy Aircraft Circuits Preload Test Set (ACPTS). Program will be completed in an incremental Approach: Capture all Fighter aircraft requirements, Develop F-16 capability for all blocks (3600),Develop F-15 capability (3600) and Develop A-10 capability (3600)		
This program element also includes program administrative cost for the Automatic Test Systems program office and funds the cost of studies and research to support the Automatic Test Systems fleet, to include digital engineering and transformation.		
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$0.303M was expended		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0701212F I Automated Test Systems				
for civilian pay expenses in this program element, in FY 2025 \$1.715M is forecasted for civilian, and in FY26 \$2.169M is forecasted pay expenses in this 0701212F for Direct Cite Authority positions.						
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget		12.911	26.640	30.761	0.000	30.761
Current President's Budget		10.007	21.634	30.341	0.000	30.341
Total Adjustments		-2.904	-5.006	-0.420	0.000	-0.420
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	0.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		-2.904	-5.006	-0.420	0.000	-0.420
Change Summary Explanation						
Appropriated baseline.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: ATS Modernization and Digital Transformation				5.707	4.800	1.752
Description: In an effort to develop and modernize ATS that maximize warfighter core capabilities across spectrum of DoD weapon systems; accelerates technology development and transition of game-changing technologies into new and existing ATS, the Automatic Test System has created the ATS Modernization/Digital Transformation Cell.						
Joint Force/All MAJCOMs depend on ATS digital transformation leveraging Model-Based Systems Engineering (MBSE), Agile SW development, and Open Systems Architecture						
Digital Transformation and Innovation are key to ATS relevant for tomorrow's fight in contested environment and supporting Persistent Logistics/Agile Combat Employment (i.e. Flight Line of the Future, Scalable ATS, Wireless and Cable-less ATS, Smart ATS, Rapid Reprogrammability, etc.)						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force / BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
FY 2025 Plans: Funds are required to accelerate ATS Digital Transformation. The funds will also be utilized to focus on modernization of ~8K testers across ALL Major Command & Joint Force. Funds will also allow ATS to accelerate fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Great Power Competition FY 2026 Plans: Provides funding for engineering and manufacturing development and modernization of ATS/equipment for all USAF major weapon systems. Includes common (used on more than one weapon system) and peculiar (unique to one weapon system), which directly support aircraft maintenance requirements. FY 2025 to FY 2026 Increase/Decrease Statement: FY25-FY26 funds decreased due to the contract for the CAT-F program being awarded. As a result, there is a decrease in A&AS positions as DCA positions were funded with the CAT-F program. The Innovation Cell will begin working on the next digital innovation effort.				
Title: Automatic Test Systems Innovation/Digital Transformation / Common Armament Tester - Fighter Description: RDT&E efforts support development, testing, and producibility of the Common Armament Tester -Fighter and Test Program Sets. FY 2025 Plans: Funds required to complete program office estimates, requests for proposals, and fund direct cite authorization civilian positions to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture & agile software enabling ACE. CAT-F Program will develop, manufacture, and sustain a common armament tester for the F-16, F-15, and A-10 platforms, capable of testing Preloads, Clean Wing, and Fault Isolation Requirements at both O-Level and I-Level Maintenance Common, cyber secure, nuclear certified, reliable, armament tester will support/replace legacy armament testers for F-16, F-15, and A-10 Fighter Aircraft Digital acquisition program with a Modular Open System Architecture using CAT-F specific Government Reference Architecture (GRA) guidance FY 2026 Plans:		2.800	1.715	19.789

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0701212F <i>I Automated Test Systems</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025	FY 2026
Funds required to continue the development of the Common Armament Tester for Fighters (CAT-F). CAT-F will provide a common preload and fault isolation armament tester to execute requirements on both flightline and back-shop. Phase I: Engineering Manufacturing Development (EMD) Stage I: Source Selection Procedures Evaluation Full and Open Competition with no Small Business Set-Aside Stage II: Initial Down Select to two (2) offerors;#160; Demonstration: Physical Asset / Testing Parameters Verification: Assess projected critical capabilities of the CAT-F system Digital Package: Data Sufficiency Cost: EMD Completion Stage III: EMD-Option Award (selecting at least one for production);#160; CAT-F System Design FY 2025 to FY 2026 Increase/Decrease Statement: FY25-26 increase is due to the award of option II on the EMD contract for the CAT-F Program. Without funds, the ATS division will not be able to develop a common, cyber secure, nuclear certified, reliable, armament tester will support/replace legacy armament testers for F-16, F-15, and A-10 Fighter Aircraft.				
Title: Bomber Armament Tester Description: This program has cancelled. However, remaining funds be utilized to close out contract actions on behalf of the Bomber Armament Tester program for B-1, B-2, and B-52. RDT&E efforts support development, testing, and producibility of the Bomber Armament Tester and Test Program Sets as well as DSMS studies associated with the B-52 and B-2 programs to include but not limited to COLT and MUSTANG. FY 2025 Plans: This program has cancelled. However, the program office is still awaiting any contract/program closeout actions pending from the contract termination. FY 2026 Plans: This program has cancelled. However, the program office is still awaiting any contract/program closeout actions pending from the contract termination. FY 2025 to FY 2026 Increase/Decrease Statement:		0.000	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0701212F I Automated Test Systems							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
This program has cancelled. However, the program office is still awaiting any contract/program closeout actions pending from the contract termination.												
Title: Common Aircraft Portable Reprogramming Equipment (CAPRE) Description: Development of a common cyber secure Memory Loader Verifier for the Air Force. Funds efforts to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture & agile software enabling ACE. FY 2025 Plans: Continue of developing air adapter groups (AAG) that will allow the 18 platforms currently utilizing CAPRE legacy to transition over to utilizing CAPRE SMLV system. FY 2026 Plans: Continue of developing air adapter groups (AAG) that will allow the 18 platforms currently utilizing CAPRE legacy to transition over to utilizing CAPRE SMLV system. FY 2025 to FY 2026 Increase/Decrease Statement: The funding increase is due to the increase labor and material costs (\$8K to \$45K per unit) associated with the porting of Legacy Air Adapter Groups to operate on the CAPRE SMLV tester utilizing the new controller and the Networked Interface Module (NIM).										1.500	15.119	8.800
Accomplishments/Planned Programs Subtotals										10.007	21.634	30.341
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• APAF 07 00071: Replacement Support Equipment	19.182	23.948	-	-	-	-	-	-	-	-	-	
Remarks												
Other program funding includes procurement funds for the Common Aircraft Portable Reprogrammable Equipment Secure Memory Loader Verifier (CAPRE SMLV), Common Armament Tester - Fighters, and other Digital Innovation/Transformation efforts.												
FY25-FY26 funding is required for administrative fees associated with releasing request for proposals (RFPs), direct cite authority (DCA) civilian personnel costs, and other administrative costs for CAT-F. The Joint Force/All MAJCOMs depending on ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture. Funds efforts to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture & agile software enabling ACE.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force									Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0701212F I Automated Test Systems						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Digital Transformation and Innovation are key to ATS relevant for tomorrow's fight in contested environment and supporting Persistent Logistics/Agile Combat Employment (i.e. Flight Line of the Future, Scalable ATS, Wireless and Cable-less ATS, Smart ATS, Rapid Reprogrammability, etc.)											
The funding increase for FY25 and FY26 is due to the costs associated with awarding Increment I for the CAT-F programs, as well as the DCA civilian personnel costs. The increase is also due to the increase of the costs associated with the porting of Legacy AAGs to operate on the CAPRE SMLV tester utilizing the new controller and the Networked Interface Module (NIM) labor and material costs increasing from \$8K to \$45K per unit.											
E. Acquisition Strategy											
Acquisition Strategy for ATS modernization and technology insertion projects are evaluated for priority, feasibility, Return on Investment, and cost then sorted into Tiers for ease of classification:											
Tier I: Stars-Highest priority projects that are both achievable and provide significant benefits to the Air Force.											
•Tier II: Rising Stars-Projects that are high priority, meet modernization goals, and will deliver needed capabilities.											
•Tier III: Innovation Opportunities-Low TRL projects that require small investments to begin development.											
•Tier IV: Sustainment Efforts-Lower cost efforts targeted at improving existing systems. Typically sustaining engineering funds (583), rather than R&D funds (3600)											
•Tier V: Watch List-Low priority and/or immature concepts that require significant investment or technology development											
Acquisition Strategy for the Bomber Armament Tester (BAT) was approved by AFPEO/ Agile Combat Support on 12 November 2015. The BAT program will use an incremental approach based on customer needs to satisfy this requirement. Increment 1 includes the development of the core test set, the B-2A requirements and development of the most complex B-1B and B-52 test program sets. Increment 2 consist of the B-1B development and Increment 3 consists of the B-52H requirements. The BAT program will utilize full and open competition to award the contract. Contract awarded September 28, 2017.											
The Acquisition strategy for Common Aircraft Portable Reprogrammable Equipment (CAPRE) Secure Memory Loader Verifier (SMLV) is to use the original government manufacturer to develop the NIM, software and hardware development. Acquisition Strategy for CAPRE was approved by the Milestone Decision Authority in June 2017.											
The Acquisition strategy for the Common Armament Tester for Fighters											
Phase I: Engineering Manufacturing Development (EMD)											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	PE 0701212F I Automated Test Systems	
Stage I: Source Selection Procedures Evaluation		
Full and Open Competition with no Small Business Set-Aside		
Stage II: Initial Down Select to two (2) offerors		
Demonstration: Physical Asset / Testing Parameters		
Verification: Assess projected critical capabilities of the CAT-F system		
Digital Package: Data Sufficiency		
Cost: EMD Completion		
Stage III: EMD-Option Award (selecting at least one for production)		
CAT-F System Design		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0701212F / Automated Test Systems				Project (Number/Name) 6506TE / Test And Evaluation Support Budget Authority					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CAPRE/CAPRE SMLV Development	PO	309th OO-ALC : UT	-	1.500	Nov 2023	14.548	Mar 2025	3.735	Nov 2025	-		3.735	-	-	-
CAT-F	C/CPAF	Not specified. : TBD	-	-		-		16.900	Dec 2025	-		16.900	-	-	-
ATS Innovation / Digital Transformation	C/CPAF	Not specified. : TBD	-	1.011	Aug 2024	0.571	Jul 2025	-		-		-	-	-	-
Subtotal			-	2.511		15.119		20.635		-		20.635	-	-	N/A
Remarks															
FY25 and FY26 funding is required for administrative fees associated with releasing request for proposals (RFPs), direct cite authority (DCA) civilian personnel costs, and other administrative costs for the Common Armament Tester-Fighters (CAT-F), which was combined with with the Aircraft Smarts Weapons Test Set (ASWTS) program.															
The funding increase is due to accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility. Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.															
The funding increase for FY25 and FY26 is due to the costs associated with awarding Increment I for the CAT-F which has been combined. Funds will also be utilized to fund DCA civilian personnel costs. Costs increased for DCA positions, due to more funds being required as the program will not be a new start in FY25.															
The funding increase for FY24 to FY25 is also due to the increase labor rate from \$177/hr to \$202/hr and material costs associated with the porting of Legacy Air Adapter Groups to operate on the CAPRE SMLV tester utilizing the new controller, the Networked Interface Module (NIM), and legacy adapter cables. The cost has increased from \$2K to \$10K due to the complexity of the adapter cables needed for the porting effort.															
Product Development Cost include all ATS modernization and technology insertion to include but not limited contract closeout actions for the Bomber Armament Tester Program, evaluation of property, software, etc. In addition, funds are needed to support obsolete/DMSMS for existing B-52 and B-2 testers long-term.															
Development efforts include developing a Network Interface Module (NIM) that provides additional cyber hardening to the CAPRE system and redesigning the current CAPRE system to adapt to the NIM. Development effort also include software development for NIM interfaces and new weapons systems moving to the CAPRE system from other MLV systems. The goal is to provide one common cyber secure MLV for the Air Force.															
Develops and modernizes ATS that maximize warfighter core capabilities across spectrum of DoD weapon systems; accelerates technology development and transition of game-changing technologies into new and existing ATS															
Digital Transformation and Modernization are key to ATS relevant for tomorrow's fight in contested environment and supporting Persistent Logistics/Agile Combat Employment; (i.e. Flight Line of the Future, Scalable ATS, Wireless and Cable-less ATS, Smart ATS, Rapid Reprogrammability, systems base modeling, proof of concept etc.)															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>						Project (Number/Name) 6506TE / <i>Test And Evaluation Support Budget Authority</i>			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program is growing as WNA focuses on 5-10 year ATS Technology and Modernization program/roadmap.															
CAT-F Program will develop, manufacture, and sustain a common armament tester for the F-16, F-15, and A-10 platforms, capable of testing Preloads, Clean Wing, and Fault Isolation Requirements at both O-Level and I-Level Maintenance.															
Common, cyber secure, nuclear certified, reliable, armament tester will support/replace legacy armament testers for F-16, F-15, and A-10 Fighter Aircraft															
Digital acquisition program with a Modular Open System Architecture using CAT-F specific Government Reference Architecture (GRA) guidance.															
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$0.303M was expended for civilian pay expenses in this program element, in FY 2025 \$1.715M is forecasted for civilian, and in FY26 \$2.169M is forecasted pay expenses in this 0701212F for Direct Cite Authority positions.															
Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Support	C/CPAF	Not specified. : TBD	-	1.200	May 2024	1.200	Dec 2024	1.272	Dec 2025	-		1.272	-	-	-
Subtotal			-	1.200		1.200		1.272		-		1.272	-	-	N/A
Remarks															
Support Cost include Independent verification and validation support, Nuclear Certification Support and Cyber Security authority support for the Automatic Test Systems Division and it's entire fleet. This program element also includes program administrative costs for the Automatic Test Systems program office and funds the cost of studies and research to support the Automatic Test Systems fleet, to include digital engineering and transformation.															
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CAT -F Direct Cite Authority Civilian Positions	C/CPAF	Not specified. : TBD	-	0.303	May 2024	1.715	Oct 2024	2.169	Oct 2025	-		2.169	-	-	-
Digital Transformation and Modernization	TBD	Not specified. : TBD	-	3.500	Jul 2024	1.547	Jul 2025	2.876	Feb 2026	-		2.876	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0701212F / Automated Test Systems				Project (Number/Name) 6506TE / Test And Evaluation Support Budget Authority					
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Administrative Costs	C/CPAF	Not specified. : TBD	-	2.493	Mar 2025	2.053	Mar 2025	3.389	Mar 2026	-		3.389	-	-	-
Subtotal			-	6.296		5.315		8.434		-		8.434	-	-	N/A
Remarks															
PMA costs includes efforts to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture & agile software enabling ACE and travel requirements for all ATS product groups to include programs associated with Armament and Stores, Avionics, Electronic Warfare, Software Loader/Verifier BIT, Radar & IFF, Specialized, and Digital Transformation IPTs. PMA cost also include an Information Assurance expert, Assistance and advisory service contractors to provide support to the program office during the development of the program. Funds will also be used to identify, research and facilitate digital transformation solutions for current and future ATS products, challenges, and needs. This will allow ATS to implement digital technology to modernize and improve ATS operations, products and services that transform business processes into digital format. The program element may include necessary civilian pay expenses required to manage, execute and deliver Automatic Test System capability.															
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	10.007		21.634		30.341		-		30.341	-	-	N/A
Remarks															
The Joint Force/All MAJCOMs depending on ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture. Funds efforts to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture & agile software enabling ACE.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0701212F / Automated Test Systems				Project (Number/Name) 6506TE / Test And Evaluation Support Budget Authority			

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
CAT-F																												
RFP RELEASE/PROPOSALS DUE																												
SSA Decision																												
Direct Cite Civilian Authorizations																												
Initial Down Select Contract Award																												
CAPRE SMLV																												
BLOCK 1 PORT: C-5, C-17, C-130, B-52																												
BLOCK 2 PORT: B-1, B-2																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>	Project (Number/Name) 6506TE / <i>Test And Evaluation Support Budget Authority</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CAT-F				
RFP RELEASE/PROPOSALS DUE	3	2025	4	2025
SSA Decision	3	2025	3	2025
Direct Cite Civilian Authorizations	1	2024	4	2025
Initial Down Select Contract Award	1	2026	1	2026
CAPRE SMLV				
BLOCK 1 PORT: C-5, C-17, C-130, B-52	1	2025	3	2025
BLOCK 2 PORT: B-1, B-2	2	2025	4	2025

Note

FY25 and FY26 funding is required for administrative fees associated with releasing request for proposals (RFPs), direct cite authority (DCA) civilian personnel costs, and other administrative costs for the Common Armament Tester-Fighters (CAT-F), which was combined with the Aircraft Smarts Weapons Test Set (ASWTS) program.

The funding increase is due to accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility. Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.

The funding increase for FY25 and FY26 is due to the costs associated with awarding Increment I for the CAT-F which has been combined. Funds will also be utilized to fund DCA civilian personnel costs. Costs increased for DCA positions, due to more funds being required as the program will not be a new start in FY25.

The funding increase for FY24 to FY25 is also due to the increase labor rate from \$177/hr to \$202/hr and material costs associated with the porting of Legacy Air Adapter Groups to operate on the CAPRE SMLV tester utilizing the new controller, the Networked Interface Module (NIM), and legacy adapter cables. The cost has increased from \$2K to \$10K due to the complexity of the adapter cables needed for the porting effort.

Product Development Cost include all ATS modernization and technology insertion to include but not limited contract closeout actions for the Bomber Armament Tester Program, evaluation of property, software, etc. In addition, funds are needed to support obsolete/DMSMS for existing B-52 and B-2 testers long-term.

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>	Project (Number/Name) 6506TE / <i>Test And Evaluation Support Budget Authority</i>
Development efforts include developing a Network Interface Module (NIM) that provides additional cyber hardening to the CAPRE system and redesigning the current CAPRE system to adapt to the NIM. Development effort also include software development for NIM interfaces and new weapons systems moving to the CAPRE system from other MLV systems. The goal is to provide one common cyber secure MLV for the Air Force. Develops and modernizes ATS that maximize warfighter core capabilities across spectrum of DoD weapon systems; accelerates technology development and transition of game-changing technologies into new and existing ATS Digital Transformation and Modernization are key to ATS relevant for tomorrow's fight in contested environment and supporting Persistent Logistics/Agile Combat Employment; (i.e. Flight Line of the Future, Scalable ATS, Wireless and Cable-less ATS, Smart ATS, Rapid Reprogrammability, systems base modeling, proof of concept etc.) CAT-F Program will develop, manufacture, and sustain a common armament tester for the F-16, F-15, and A-10 platforms, capable of testing Preloads, Clean Wing, and Fault Isolation Requirements at both O-Level and I-Level Maintenance. It will be a common, cyber secure, nuclear certified, reliable, armament tester will support/ replace legacy armament testers for F-16, F-15, and A-10 Fighter Aircraft CAT-F's Acquisition Strategy: Phase I: Engineering Manufacturing Development (EMD)&#160; Stage I: Source Selection Procedures Evaluation&#160; Full and Open Competition with no Small Business Set-Aside Stage II: Initial Down Select to two (2) offerors&#160; Demonstration: Physical Asset / Testing Parameters Verification: Assess projected critical capabilities of the CAT-F system Digital Package: Data Sufficiency&#160; Cost: EMD Completion Stage III: EMD-Final Down Select (selecting one for production)&#160; CAT-F System Design&#160; Digital acquisition program with a Modular Open System Architecture using CAT-F specific Government Reference Architecture (GRA) guidance.		

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0701212F / Automated Test Systems	Project (Number/Name) 6506TE / Test And Evaluation Support Budget Authority
This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829F, 0605831F, 0605833F, or 0605898F. In FY 2024 \$0.303M was expended for civilian pay expenses in this program element, in FY 2025 \$1.715M is forecasted for civilian, and in FY26 \$2.169M is forecasted pay expenses in this 0701212F for Direct Cite Authority positions. The Bomber Armament Tester (BAT) program has been cancelled. Awaiting contract closeout costs from termination. The BAT tester was supposed to be a nuclear certified common tester capable of testing on-aircraft Stores Management Systems and Line Replacement Units both on-and off-aircraft. The BAT System will test functionality of the Armament Mission Equipment (AME) that is required for B-2A, B-1B, and B-52H weapons delivery. The BAT schedule reflects Increments I, II, AND III. Due to an increase in material cost...		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force	Date: June 2025

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0804772F / <i>Training Developments</i>

COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	1.248	4.960	5.067	0.000	5.067	-	-	-	-	-	-
652400: <i>Training Developments</i>	0.000	1.248	4.960	5.067	0.000	5.067	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Training Developments is one part of the Pilot Training Transformation (PTT) program initiative to modernize pilot training, improve both quality and quantity of pilots —through implementing advanced technology and up-to-date instructional techniques. Training Developments program harvests cutting edge technology to provide a faster, more cost effective and more comprehensive training model to get the warfighter to the cockpit in half the time. Training Developments will utilize new training technologies to develop effective processes and procedures to increase pilot production, improve and streamline existing training programs that will directly aid AETC's flying training enterprise to address the USAF Pilot Shortage.

In 2018, as part of this initiative, Air Education and Training Command (AETC) launched the Pilot Training Next (PTN) program in an effort to produce more pilots in less time at a reduced cost. Located at Randolph Air Force Base, TX, Detachment 24, PTN explores technological and instructional innovations designed to improve upon Specialized Undergraduate Pilot Training (SUPT). Detachment 24 trained small groups of students using experimental syllabi. In 2018, the first class of 13 students graduated from a 24-week course and trained 41 students over three different experimental classes. Like SUPT, PTN graduates received a basic aeronautical rating and went to follow-on training in airframes like the F-35/F-16 fighter aircraft and C-17 cargo aircraft. In 2022, AETC adopted the innovations tested at Detachment 24 and launched a new pilot training syllabus at the all major pilot training bases.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.000 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.000 million is forecast for civilian pay expenses in this program element.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0804772F I Training Developments			
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	1.922	4.960	5.083	0.000	5.083
Current President's Budget	1.248	4.960	5.067	0.000	5.067
Total Adjustments	-0.674	0.000	-0.016	0.000	-0.016
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	-0.674	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.016	0.000	-0.016

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0804772F / <i>Training Developments</i>				Project (Number/Name) 652400 / <i>Training Developments</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
652400: <i>Training Developments</i>	0.000	1.248	4.960	5.067	0.000	5.067	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Training Developments provide a more cost effective and timely approach to pilot training with technological and instructional innovations designed to improve upon Specialized Undergraduate Pilot Training (SUPT). New innovative training technologies are studied and validated for implementation by the Air Education and Training Command (AETC) pilot training program to ensure delivery of rapidly developed prototypes and operationally tested learning methods and technology to realize flying training efficiencies.

Training Developments' focus is the SUPT program which includes but not limited to T-6, T-1, and T-38. Funding for Training Developments has resulted in The Air Mobility Fundamentals - Simulator Only program which reduces the pilot training timeline from 7 months to 3 months and directly aids AETC's flying training enterprise and USAF pilot shortage. Training Developments will continue to conduct future flying training innovation and field testing as AETC looks to transition to the Airmen Development Command.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2024 \$0.000 million was expended for civilian pay expenses in this program element, and in FY 2025 \$0.000 million is forecast for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
Title: Pilot Training Next (PTN) Development	1.248	4.960	5.067
Description: PTN is an innovation cell that develops new techniques for pilot training. If the technique is effective, affordable, and actionable it is included in the Pilot Instructor Training (PIT) curriculum. The class of students has a 1-2 instructor to student ratio to ensure pilot training success. PTN uses virtual reality and simulation in a controlled experimental environment to train students and test techniques. PTN program rapidly develops prototypes and operationally tests new learning methods and technology to realize flying training efficiencies. Since inception, focus is primarily on the Specialized Undergraduate Pilot Training (SUPT) programs (T-6, T-1, and T-38). PNT will continue to explore the limits of extended reality and develop mixed reality solutions for the T-38C aircraft. Future efforts will continue to develop and mature solutions for training efficiency. Efforts focus on validating new aviation training technology concepts, develop processes and procure prototype equipment to increase pilot production, improve and streamline existing undergraduate pilot training programs, and identify training concepts for introduction of the T-7A Red Hawk.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Air Force		Date: June 2025	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0804772F / <i>Training Developments</i>	Project (Number/Name) 652400 / <i>Training Developments</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2024	FY 2025
Research, develop and analyze immersive technology projects in support of Fighter Bomber Fundamentals, a combination of two legacy T-38 syllabi. Transition development to support Specialized Undergraduate Pilot Training (SUPT) to include by not limited to producing T-7A SUPT syllabus, immersive devices, and remote simulator solutions. <i>FY 2026 Plans:</i> Continue to research and analyze flying training use cases for advancements in immersive technology, spatial computing to delivery remote instruction, and methods to integrate 5th generation aircraft competencies into the synthetic environment to include but not limited to new aviation training technology concepts and develop processes to increase pilot production and identify training concepts for introduction of the T-7A Red Hawk. <i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> Funding increased due to slight ramp up of efforts to validate new aviation training concepts for introduction of the T-7A Red Hawk.			
Accomplishments/Planned Programs Subtotals		1.248	4.960
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
Acquisition strategy is based on Air Education and Training Command's innovation unit [Detachment 24] requirements and will leverage current, state of the art instructional training aids and technologies. The initial systems Pilot Training Next (PTN) is primarily focused on are small-scale avionics modifications to the T-6A aircraft and incorporating virtual Reality Immersive Training Devices into the specialized undergraduate pilot training curriculum.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0804772F / Training Developments				Project (Number/Name) 652400 / Training Developments					
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Pilot Training Next Contracts	Various	AFLCMC : Wright Patterson AFB, OH	-	0.574	Apr 2024	3.878	Apr 2025	5.067	Apr 2026	-		5.067	-	-	-
Subtotal			-	0.574		3.878		5.067		-		5.067	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
Program Support Costs	Various	Various : TBD	-	0.674	Oct 2024	1.082	Oct 2025	0.000	Oct 2025	-		0.000	-	-	-
Subtotal			-	0.674		1.082		0.000		-		0.000	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.248		4.960		5.067		-		5.067	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force			Date: June 2025
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)	
3600 / 5	PE 0804772F / Training Developments	652400 / Training Developments	

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
Pilot Training Studies																												
Future Pilot Training Systems Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0804772F / Training Developments	Project (Number/Name) 652400 / Training Developments

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Pilot Training Studies</i>				
Future Pilot Training Systems Development	2	2024	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					PE 1203176F I Combat Survivor Evader Locator							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	1.135	0.000	0.000	0.000	-	-	-	-	-	-
654522: CSAR EMD	0.000	0.000	1.135	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The FY 2026 to FY 2030 efforts in PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) were transferred to PE 0207279F (Isolated Personnel Survivability and Recovery) Project 65412B (Isolated Personnel) in order to consolidate program efforts and reduce the quantity of program elements

A. Mission Description and Budget Item Justification

The Combat Survivor Evader Locator (CSEL) System provides aircrews with end-to-end global satellite secure emergency communication capability during combat and peace-time flying operations. CSEL provides a hand held radio as part of the mandatory aircrew survival gear. CSEL is a joint program (Air Force, Army, Navy, and US Marine Corps) and is the DoD program of record for personnel recovery survival radios. CSEL supports four of five Personnel Mission Phases: Report, Locate, Support, and Recover.

A National Security Agency (NSA) Cryptographic Modernization mandate and the Ultra High Frequency Follow-On satellite constellation are at the end of life and are driving upgrades to base stations. This effort includes development to modernize the system to integrate common waveforms, integrate broadcast reception for non-CSEL devices. A portable interrogator will precisely locate the IP using the CSEL architecture without extensive audio communications that could compromise both rescue forces and IP. The portable interrogator will enable communication between IP and any designated aircraft not equipped with a AN/ARS-6 PLS Lightweight Airborne Radio System (LARS) or similar device as a Rescue Support Force (F-35, F-16, F-15E, Ground Teams etc.) asset.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver CSEL capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F. In FY 2024, \$0.000M was expended for civilian pay expenses in this program element and in FY 2025 \$0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force				Date: June 2025		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 1203176F I Combat Survivor Evader Locator				
B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	
Previous President's Budget	0.000	2.269	2.283	0.000	2.283	
Current President's Budget	0.000	1.135	0.000	0.000	0.000	
Total Adjustments	0.000	-1.134	-2.283	0.000	-2.283	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	-1.134				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	-2.283	0.000	-2.283	
Change Summary Explanation						
The \$1.134 million decrease in FY 2025 reflects reprogramming to support higher Air Force priorities						
The \$2.283 million decrease in FY 2026 reflects PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) efforts transferred to PE 0207279F (Isolated Personnel Survivability and Recovery) Project 65412B (Isolated Personnel) in order to consolidate program efforts and reduce the quantity of program elements						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2024	FY 2025	FY 2026
Title: CSEL Portable Interrogator				0.000	1.135	0.000
Description: Develop portable interrogator that enables Terminal Area Communication directly between Aircraft and Isolated Personnel, independent of and without modification to Aircraft.						
FY 2025 Plans: The FY2025 efforts will support CSEL Portable Interrogator and will be part of the USAF CSEL Command and Control System program. This modification effort is supported by CSE Lead Command ACC/A5R Personnel Recovery Division with potential support to other DoD customers						
FY 2026 Plans: Efforts will be executed from PE 0207279F (Isolated Personnel Survivability and Recovery), Project 65412B (Isolated Personnel) to consolidate program efforts and reduce the quantity of program elements						
FY 2025 to FY 2026 Increase/Decrease Statement:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Air Force										Date: June 2025		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 1203176F I Combat Survivor Evader Locator							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2024	FY 2025	FY 2026
The \$2.283M decrease in FY 2026 reflects PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) efforts transferred to PE 0207279F (Isolated Personnel Survivability and Recovery) Project 65412B (Isolated Personnel) in order to consolidate program efforts and reduce the quantity of program elements												
Accomplishments/Planned Programs Subtotals										0.000	1.135	0.000
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost	
• RDTE 05 0207279F: Isolated Personnel Survivability and Recovery	54.271	10.020	97.031	-	97.031	-	-	-	-	-	-	
• OPAF 03 1203176F: Combat Survivor Evader Locator	0.000	2.222	0.000	-	0.000	-	-	-	-	-	-	
Remarks												
E. Acquisition Strategy												
Program management for CSEL is under the direction of PEO Electronic Systems, located at Hanscom AFB, MA. The Aerospace Dominance Enabler Division (AFLCMC/HBZ; Hill AFB, UT) provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support. The Air Force Life Cycle Management Center, provides Other Transaction Authority												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Air Force												Date: June 2025			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 1203176F / Combat Survivor Evader Locator						Project (Number/Name) 654522 / CSAR EMD			
Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
CSEL Portable Interrogator	Various	AFLCMC/HBZ : Hill AFB, UT	-	-		1.001	Dec 2024	-		-		-	-	-	-
Subtotal			-	-		1.001		-		-		-	-	-	N/A
Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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
PMA Other Government Costs	Various	AFLCMC/HBZ : Hill AFB, UT	-	-		0.134	Dec 2024	-		-		-	-	-	-
Subtotal			-	-		0.134		-		-		-	-	-	N/A
			Prior Years	FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		1.135		-		-		-	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Air Force										Date: June 2025																			
Appropriation/Budget Activity 3600 / 5										R-1 Program Element (Number/Name) PE 1203176F / <i>Combat Survivor Evader L ocator</i>										Project (Number/Name) 654522 / CSAR EMD									

	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
CSEL Portable Interregator																												
Product Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Air Force		Date: June 2025
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 1203176F / Combat Survivor Evader Locator	Project (Number/Name) 654522 / CSAR EMD

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CSEL Portable Interrogator				
Product Development	1	2025	4	2025