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**Department of War
Fiscal Year (FY) 2027 Budget Estimates**

April 2026



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 2027 • 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 2027 • RDT&E Program

Volume 2 Table of Contents

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

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

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

OP-8.....Volume 2 - lv

Executive Summary.....Volume 2 - lix

Acronyms..... Volume 2 - lxiii

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

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Department Of War
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

	FY 2025	FY 2026	FY 2026 PL		FY 2027	FY 2027	
	Actuals	Discretionary	119-21	FY 2026	Discretionary	Mandatory	FY 2027
<u>Appropriation</u>		Enacted	Spend Plan	Total	Request	Request	Total
Research, Development, Test and Evaluation, Air Force	47,044,594	50,289,595	6,705,560	56,995,155	73,075,614	1,091,686	74,167,300
Total Research, Development, Test, & Evaluation	47,044,594	50,289,595	6,705,560	56,995,155	73,075,614	1,091,686	74,167,300

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Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
1	0601102F	Defense Research Sciences	01	324,773	307,645		307,645	296,535		296,535
2	0601103F	University Research Initiatives	01	128,783	99,908		99,908	91,394		91,394
	Basic research			453,556	407,553		407,553	387,929		387,929
3	0602020F	Future AF Capabilities Applied Research	02	65,619	77,367		77,367	44,029		44,029
4	0602022F	University Affiliated Research Center (UARC) - Tactical Autonomy	02	7,924	6,208		6,208			
5	0602102F	Materials	02	176,661	232,193		232,193	139,872		139,872
6	0602201F	Aerospace Vehicle Technologies	02	4,932						
7	0602202F	Human Effectiveness Applied Research	02	130,281	145,285		145,285	103,170		103,170
8	0602203F	Aerospace Systems Technologies	02	330,065	381,094		381,094	397,809		397,809
9	0602204F	Aerospace Sensors	02	183,053	218,973		218,973	164,962		164,962
10	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02	97,809						
11	0602298F	Science and Technology Management - Major Headquarters Activities	02	9,662	13,763		13,763	10,285		10,285
12	0602336F	Nuclear Delivery Systems Tech Exploration	02		4,937		4,937	27,031		27,031
13	0602602F	Conventional Munitions	02	136,072	124,433		124,433	130,146		130,146
14	0602605F	Directed Energy Technology	02	92,374	96,154		96,154	91,798		91,798
15	0602788F	Dominant Information Sciences and Methods	02	196,117	295,677		295,677	149,174		149,174
	Applied research			1,430,569	1,596,084		1,596,084	1,258,276		1,258,276
16	0603032F	Future AF Integrated Technology Demos	03	150,643	255,570		255,570	282,004		282,004
17	0603112F	Advanced Materials for Weapon Systems	03	30,035	45,202		45,202	32,808		32,808

UNCLASSIFIED

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FY 2027 President's Budget
Exhibit R-1
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18	0603199F	Sustainment Science and Technology (S&T)	03	5,358	27,791		27,791	13,277		13,277
19	0603203F	Advanced Aerospace Sensors	03	35,088	69,098		69,098	72,149		72,149
20	0603211F	Aerospace Technology Dev/Demo	03	75,627	264,439		264,439	260,212		260,212
21	0603270F	Electronic Combat Technology	03	34,654						
22	0603273F	Science & Technology for Nuclear Re-entry Systems	03	85,661	141,569		141,569	165,949		165,949
23	0603456F	Human Effectiveness Advanced Technology Development	03	13,549	19,549		19,549	20,338		20,338
24	0603601F	Conventional Weapons Technology	03	117,877	98,569		98,569	131,397		131,397
25	0603605F	Advanced Weapons Technology	03	27,161	16,783		16,783	13,744		13,744
26	0603680F	Manufacturing Technology Program	03	118,087	342,507		342,507	99,908		99,908
27	0603788F	Battlespace Knowledge Development and Demonstration	03	53,512	32,411		32,411	31,938		31,938
28	0604776F	Deployment & Distribution Enterprise R&D	03	19,325	30,263		30,263	29,109		29,109
29	0207412F	Control and Reporting Center (CRC)	03	1,938						
	Advanced technology development			768,515	1,343,751		1,343,751	1,152,833		1,152,833
30	0603036F	Modular Advanced Missile	04					15,099		15,099
31	0603260F	Intelligence Advanced Development	04	3,820	3,901		3,901	4,012		4,012
32	0603677F	In-Transit Visibility (ITV) Modernization	04		10,000		10,000			
33	0603742F	Combat Identification Technology	04	16,790	24,860		24,860	25,888		25,888
34	0603790F	NATO Research and Development	04	2,214	4,532		4,532	2,320		2,320
35	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	106,040	117,120		117,120	72,112		72,112
36	0604001F	NC3 Advanced Concepts	04	5,283	10,762		10,762	14,394		14,394

UNCLASSIFIED

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Exhibit R-1
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37	0604003F	Advanced Battle Management System (ABMS)	04	595,537	870,876		870,876	1,040,945		1,040,945
38	0604004F	Advanced Engine Development	04	96,470	25,000		25,000			
39	0604005F	NC3 Commercial Development & Prototyping	04	50,702	66,249		66,249	61,355		61,355
40	0604007F	E-7	04	586,729	1,097,263		1,097,263			
41	0604009F	AFWERX	04	62,123	73,499		73,499	3,589		3,589
42	0604010F	Next Generation Adaptive Propulsion	04	489,737	326,010		326,010	513,681		513,681
43	0604015F	Long Range Strike - Bomber	04	2,565,533	2,729,511		2,729,511	2,862,677		2,862,677
44	0604025F	Rapid Defense Experimentation Reserve (RDER)	04	72,448						
45	0604032F	Directed Energy Prototyping	04	1,312						
46	0604033F	Hypersonics Prototyping	04			133,334	133,334	345,769		345,769
47	0604041F	Family of Affordable Mass Missiles (FAMM)	04			285,000	285,000	525,223	51,000	576,223
48	0604060F	NORAD & USNORTHCOM (N&NC) Experimentation	04					39,257		39,257
49	0604183F	Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	04	452,800	828,075		828,075	806,142		806,142
50	0604257F	Advanced Technology and Sensors	04	15,865	40,779		40,779	38,756		38,756
51	0604288F	Survivable Airborne Operations Center (SAOC)	04	1,559,133						
52	0604317F	Technology Transfer	04	10,151	37,529		37,529	2,196		2,196
53	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	120,184	142,661	154,000	296,661	186,385		186,385
54	0604336F	Nuclear Delivery Systems Prototyping	04	37,709	42,538		42,538	91,550		91,550
55	0604343F	Advanced Tanker Systems	04					13,036		13,036

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
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56	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	44,191	45,642		45,642	44,377		44,377
57	0604609F	Requirements Analysis & Concept Maturation	04	12,230	17,264		17,264	57,575		57,575
58	0604668F	Joint Transportation Management System (JTMS)	04	71,552	124,787		124,787	57,802		57,802
59	0604776F	Deployment & Distribution Enterprise R&D	04	4,840	4,996		4,996	5,136		5,136
60	0604858F	Tech Transition Program	04	246,279	159,756	296,000	455,756	166,061		166,061
61	0604860F	Operational Energy and Installation Resilience	04	24,597	81,419	102,000	183,419	61,000		61,000
62	0605057F	Next Generation Air-refueling System	04	6,891	11,874		11,874			
63	0605164F	Air Refueling Capability Modernization	04	13,600						
64	0606004F	Nuclear Enterprise Research & Development	04		94,782		94,782	1,105		1,105
65	0606005F	Digital Transformation Office	04	19,227	73,478		73,478	183,398		183,398
66	0207110F	F-47	04	2,341,899						
67	0207147F	Collaborative Combat Aircraft	04	688,492	150,574	676,750	827,324	1,373,740		1,373,740
68	0207179F	Autonomous Collaborative Platforms	04	48,983	63,471		63,471	57,217		57,217
69	0207420F	Combat Identification	04	1,844	1,689		1,689	1,692		1,692
70	0207448F	C2ISR Tactical Data Link	04	3,383						
71	0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	7,809	12,677		12,677	22,335		22,335
72	0207522F	Airbase Air Defense Systems (ABADS)	04	19,273	15,666		15,666	85,305		85,305
73	0207606F	Joint Simulation Environment (JSE)	04	147,368	247,491		247,491	302,801		302,801
74	0208030F	War Reserve Materiel - Ammunition	04	5,042	9,732		9,732	14,663		14,663

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

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75	0302060F	Looking Glass Next	04					65,277		65,277
76	0303010F	AF ISR Digital Infrastructure	04	18,733	21,711		21,711	24,455		24,455
77	0305236F	Common Data Link Executive Agent (CDL EA)	04	33,349	32,511		32,511	26,401		26,401
78	0305601F	Mission Partner Environments	04	17,765	36,755		36,755			
79	0305913F	Persistent Surveillance	04					29,325		29,325
80	0701200F	Enterprise Select Class II	04		986		986	949		949
81	0708051F	Rapid Sustainment Modernization (RSM)	04	48,361	45,918		45,918	27,475		27,475
82	0808736F	Special Victim Accountability and Investigation	04	3,023	1,970		1,970	1,652		1,652
83	0808737F	Integrated Primary Prevention	04	5,041	5,096		5,096	4,271		4,271
84	0901410F	Contracting Information Technology System	04	28,088	28,876		28,876	25,815		25,815
85	1206415F	U.S. Space Command Research and Development Support	04	23,553	33,205		33,205	34,719		34,719
	Advanced component development and prototypes			10,735,993	7,773,491	1,647,084	9,420,575	9,338,932	51,000	9,389,932
86	0604200F	Future Advanced Weapon Analysis & Programs	05	8,290	52,398	80,000	132,398	35,142		35,142
87	0604201F	PNT Resiliency, Mods, and Improvements	05	224,017	124,199		124,199	710,780		710,780
88	0604222F	Nuclear Weapons Support	05	68,377	78,326		78,326	86,921		86,921
89	0604270F	Electronic Warfare Development	05	13,648	18,971		18,971	260,233		260,233
90	0604281F	Tactical Data Networks Enterprise	05	76,188	76,418		76,418	110,151		110,151
91	0604287F	Physical Security Equipment	05	7,720	15,005		15,005	8,743		8,743
92	0604288F	Survivable Airborne Operations Center (SAOC)	05		1,801,293	64,500	1,865,793	2,218,921		2,218,921
93	0604602F	Armament/Ordnance Development	05	5,304	7,174		7,174	96,762		96,762

UNCLASSIFIED

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FY 2027 President's Budget
Exhibit R-1
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(Dollars in Thousands)

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

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94	0604604F	Submunitions	05	3,427	3,502		3,502	3,599		3,599
95	0604617F	Agile Combat Support	05	22,977	23,235		23,235	19,348		19,348
96	0604706F	Life Support Systems	05	23,741	20,302		20,302	21,328		21,328
97	0604735F	Combat Training Ranges	05	154,258	147,587		147,587	132,783		132,783
98	0604932F	Long Range Standoff Weapon	05	579,557	446,889		446,889	565,679		565,679
99	0604933F	ICBM Fuze Modernization	05		3,252		3,252			
100	0605056F	Open Architecture Management	05	40,147	41,422		41,422	43,482		43,482
101	0605223F	Advanced Pilot Training	05	240,513	163,138		163,138	72,174		72,174
102	0605238F	Ground Based Strategic Deterrent EMD	05	1,942,400	2,616,352	2,189,000	4,805,352	4,521,370		4,521,370
103	0605296F	Microelectronics Secure Enclave	05		103,608		103,608	224,664		224,664
104	0101125F	Nuclear Weapons Modernization	05					23,066		23,066
105	0102417F	Over-the-Horizon Backscatter Radar	05	376,997				173,975		173,975
106	0207039F	Cognitive Electromagnetic Warfare	05		23,933		23,933	50,496		50,496
107	0207110F	F-47	05		3,053,053	400,000	3,453,053	5,037,904		5,037,904
108	0207279F	Isolated Personnel Survivability and Recovery	05	9,757	53,948		53,948	16,001		16,001
109	0207328F	Stand In Attack Weapon	05	319,559	252,062		252,062	115,882		115,882
110	0207407F	Electromagnetic Battle Management (EMBM)	05		17,693		17,693	45,322		45,322
111	0207701F	Full Combat Mission Training	05	7,636	10,276		10,276	6,501		6,501
112	0303008F	SATURN	05		4,917		4,917	4,771		4,771
113	0303267F	Auctioned Spectrum Relocation Fund	05	9,695						
114	0303867F	AMBIT - Post-Auctioned SRF	05	19,453						
115	0305155F	Theater Nuclear Weapon Storage & Security System	05	1,936	19,777		19,777			

UNCLASSIFIED

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FY 2027 President's Budget
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Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
116	0305282F	Joint Fires Network (JFN)	05			311,432	311,432	313,982		313,982
117	0401221F	KC-46A Tanker Squadrons	05	76,296	130,175		130,175	543,788		543,788
118	0401319F	VC-25B	05	419,617	594,557		594,557	555,195		555,195
119	0401334F	Large Aircraft Survivability Systems (LASS)	05					17,996		17,996
120	0701212F	Automated Test Systems	05	20,962	29,925		29,925	15,900		15,900
121	0804772F	Training Developments	05	4,778	8,198		8,198	4,947		4,947
122	1203176F	Combat Survivor Evader Locator	05	983						
System development and demonstration				4,678,233	9,941,585	3,044,932	12,986,517	16,057,806		16,057,806
123	0604256F	Threat Simulator Development	06	17,078	40,935		40,935	44,526		44,526
124	0604759F	Major T&E Investment	06	65,962	157,959		157,959	235,405		235,405
125	0605101F	RAND Project Air Force	06	38,270	31,961		31,961	13,312		13,312
126	0605502F	Small Business Innovation Research	06	904,678						
127	0605712F	Initial Operational Test & Evaluation	06	14,247	13,681		13,681	13,562		13,562
128	0605807F	Test and Evaluation Support	06	936,479	1,113,371		1,113,371	1,802,502		1,802,502
129	0605827F	Acq Workforce- Global Vig & Combat Sys	06	339,924						
130	0605828F	Acq Workforce- Global Reach	06	516,240						
131	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06	466,068	435,918		435,918	439,592		439,592
132	0605831F	Acq Workforce- Capability Integration	06	305,394	1,153,165		1,153,165	1,206,669		1,206,669
133	0605832F	Acq Workforce- Advanced Prgm Technology	06	68,182						
134	0605833F	Acq Workforce- Nuclear Systems	06	328,180	368,881		368,881	342,650		342,650
135	0605898F	Management HQ - R&D	06	6,541	5,960		5,960	6,209		6,209

UNCLASSIFIED

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136	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06	94,828	199,363		199,363	367,369		367,369
137	0605978F	Facilities Sustainment - Test and Evaluation Support	06	63,579	91,969		91,969	298,924		298,924
138	0606017F	Requirements Analysis and Maturation	06	30,774	45,786		45,786	21,678		21,678
139	0606398F	Management HQ - T&E	06	8,081	7,417		7,417	7,507		7,507
140	0208201F	Offensive small Unmanned Aircraft Systems (sUAS)	06		4,917	12,000	16,917	30,187		30,187
141	0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM	06	38,161	61,447		61,447	18,068		18,068
142	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06	104,232	115,119		115,119	80,342		80,342
143	0702806F	Acquisition and Management Support	06	19,823	25,359		25,359	12,132		12,132
144	0804776F	Advanced Distributed Learning	06	797	1,675		1,675	238		238
145	0901215F	Productivity Investments	06					4,017		4,017
146	0909999F	Financing for Cancelled Account Adjustments	06	787						
147	1001004F	International Activities	06	4,098	4,368		4,368	4,514		4,514
	Management support			4,372,403	3,879,251	12,000	3,891,251	4,949,403		4,949,403
148	0604222F	Nuclear Weapons Support	07					10,029		10,029
149	0604233F	Specialized Undergraduate Flight Training	07	29,132	56,373		56,373	22,071		22,071
150	0604283F	Battle Mgmt Com & Ctrl Sensor Development	07	66,717	47,298		47,298	44,187		44,187
151	0604445F	Wide Area Surveillance	07	20,722						
152	0604840F	F-35 C2D2	07	1,099,328	960,621		960,621	1,128,748	939,586	2,068,334
153	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	48,523	63,172		63,172	31,777		31,777

UNCLASSIFIED

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FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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154	0605024F	Anti-Tamper Technology Executive Agency	07	65,434	62,803		62,803	130,610		130,610
155	0605117F	Foreign Materiel Acquisition and Exploitation	07	123,775				4,676		4,676
156	0605229F	HH-60W	07	31,646	40,474		40,474	87,881		87,881
157	0605278F	HC/MC-130 Recap RDT&E	07	43,597	77,079		77,079	34,932		34,932
158	0606018F	NC3 Integration	07	21,289	39,599		39,599	36,521		36,521
159	0101113F	B-52 Squadrons	07	1,019,125	888,158		888,158	1,478,648	101,100	1,579,748
160	0101122F	Air-Launched Cruise Missile (ALCM)	07	527	555		555	570		570
161	0101126F	B-1B Squadrons	07	17,316	150,566		150,566	273,552		273,552
162	0101127F	B-2 Squadrons	07	44,020	72,351		72,351	418,178		418,178
163	0101213F	Minuteman Squadrons	07	57,201	69,110		69,110	79,313		79,313
164	0101316F	Worldwide Joint Strategic Communications	07	13,268	13,364		13,364	44,424		44,424
165	0101318F	Service Support to STRATCOM - Global Strike	07	7,062	6,833		6,833	56,203		56,203
166	0101328F	ICBM Reentry Vehicles	07	378,983	256,758	100,000	356,758	733,182		733,182
168	0102110F	MH-139A	07	14,679	5,900		5,900	7,046		7,046
169	0102326F	Region/Sector Operation Control Center Modernization Program	07	839	722		722	709		709
170	0102417F	Over-the-Horizon Backscatter Radar	07		130,401		130,401			
171	0202834F	Aviation Support Equipment - General	07	6,097	10,733		10,733	1,028		1,028
172	0203345F	Operations Security (OPSEC)	07					45,000		45,000
173	0205219F	MQ-9 UAV	07	6,841	32,600		32,600	16,723		16,723
174	0205671F	Joint Counter RCIED Electronic Warfare	07	3,325	3,382		3,382	2,816		2,816

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
175	0207040F	Multi-Platform Electronic Warfare Equipment	07		7,000		7,000			
176	0207133F	F-16 Squadrons	07	107,714	229,857	82,500	312,357	527,739		527,739
177	0207134F	F-15E Squadrons	07	138,345	229,946		229,946	322,889		322,889
178	0207136F	Manned Destructive Suppression	07	12,119	15,309		15,309	8,128		8,128
179	0207138F	F-22A Squadrons	07	733,581	813,987		813,987	950,375		950,375
180	0207142F	F-35 Squadrons	07	45,444	32,203		32,203	47,388		47,388
181	0207146F	F-15EX	07	54,875	117,715	40,000	157,715	133,274		133,274
182	0207161F	Tactical AIM Missiles	07	33,701	85,449		85,449	98,861		98,861
183	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	51,898	50,539		50,539	53,277		53,277
184	0207172F	Joint Advanced Tactical Missile (JATM)	07		420,110		420,110	500,422		500,422
185	0207227F	Combat Rescue - Pararescue	07	743						
186	0207238F	E-11A	07	29,669	15,035		15,035			
187	0207242F	Special Program Applications	07					35,149		35,149
188	0207247F	AF TENCAP	07	50,263	52,492		52,492	50,913		50,913
189	0207249F	Precision Attack Systems Procurement	07	9,106	13,429		13,429	14,602		14,602
190	0207253F	Compass Call	07	115,978		90,241	90,241	66,514		66,514
191	0207268F	Aircraft Engine Component Improvement Program	07	58,429	64,073		64,073	205,938		205,938
192	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	190,710	226,116	200,000	426,116	133,092		133,092
193	0207327F	Small Diameter Bomb (SDB)	07	29,047	24,575		24,575	25,497		25,497
194	0207410F	Air & Space Operations Center (AOC)	07	63,091	99,217		99,217	158,871		158,871
195	0207412F	Control and Reporting Center (CRC)	07	16,441	17,407		17,407	18,137		18,137

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
196	0207418F	AFSPECWAR - TACP	07	1,380				5,206		5,206
198	0207431F	Combat Air Intelligence System Activities	07	25,049	35,646		35,646	33,700		33,700
199	0207438F	Theater Battle Management (TBM) C4I	07	4,249	6,698		6,698	7,014		7,014
200	0207439F	Electromagnetic Warfare Int Reprog (EWIR)	07	13,081	38,639		38,639	73,523		73,523
201	0207444F	Tactical Air Control Party-Mod	07	11,816						
202	0207452F	DCAPES	07	8,154	8,390		8,390	5,254		5,254
203	0207457F	Air Force Special Warfare (SPECWAR)	07		27,149		27,149	24,423		24,423
204	0207461F	Flight Operations Systems	07					15,978		15,978
205	0207521F	Air Force Calibration Programs	07	2,213	2,242		2,242	2,220		2,220
206	0207573F	National Technical Nuclear Forensics	07	1,984						
207	0207590F	Seek Eagle	07	34,982	33,706		33,706	36,710		36,710
208	0207611F	Readiness Decision Support Enterprise	07		8,758		8,758	6,823		6,823
209	0207697F	Distributed Training and Exercises	07	3,826	4,342	10,000	14,342	83,659		83,659
210	0207701F	Full Combat Mission Training	07	3,808	7,985		7,985	6,644		6,644
211	0208006F	Mission Planning Systems	07	78,113	123,103		123,103	122,175		122,175
212	0208007F	Tactical Deception	07	519	13,523		13,523	48,857		48,857
213	0208087F	Distributed Cyber Warfare Operations	07	28,792	30,893		30,893	71,868		71,868
214	0208088F	AF Defensive Cyberspace Operations	07	83,231	121,433		121,433	76,758		76,758
218	0208288F	Intel Data Applications	07	988	1,012		1,012	7,511		7,511
219	0301025F	GeoBase	07		985		985	403		403

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
220	0301113F	Cyber Security Intelligence Support	07	18,141	14,749		14,749			
226	0301377F	Countering Advanced Conventional Weapons (CACW)	07	834	1,117		1,117	1,343		1,343
228	0301401F	AF Multi-Domain Non-Traditional ISR Battlespace Awareness	07	3,006	2,987		2,987	2,754		2,754
229	0302015F	E-4B National Airborne Operations Center (NAOC)	07	52,362	55,095		55,095	50,873		50,873
230	0302315F	Non-Kinetic Countermeasure Support	07	7,590	7,006		7,006	4,024		4,024
231	0303004F	EIT CONNECT	07	15,531						
232	0303089F	Cyberspace and DoDIN Operations	07	9,432	9,955		9,955			
233	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	24,763	98,548		98,548	254,837		254,837
234	0303133F	High Frequency Radio Systems	07	8,423	19,709		19,709	33,215		33,215
235	0303140F	Information Systems Security Program	07	98,150	101,551		101,551	117,658		117,658
236	0303248F	All Domain Common Platform	07	86,301	75,711		75,711	71,312		71,312
237	0303260F	Joint Military Deception Initiative	07	6,557	351		351			
238	0304100F	Strategic Mission Planning & Execution System (SMPES)	07	67,385	74,236		74,236	89,663		89,663
239	0304109F	THRESHER	07		103		103	109		109
242	0304260F	Airborne SIGINT Enterprise	07	92,473	98,650		98,650	98,319		98,319
243	0304310F	Commercial Economic Analysis	07	4,546	4,070		4,070	1,713		1,713
246	0304784F	Long Endurance - Airborne ISR	07			23,000	23,000	16,570		16,570
247	0305015F	C2 Air Operations Suite - C2 Info Services	07	15,742						
248	0305020F	CCMD Intelligence Information Technology	07	1,836	1,547		1,547			

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
249	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07	19,409	22,237		22,237	16,188		16,188
250	0305099F	Global Air Traffic Management (GATM)	07	4,505	4,222		4,222	4,210		4,210
251	0305103F	Cyber Security Initiative	07	292	305		305	318		318
252	0305111F	Weather Service	07	39,438	50,129		50,129	29,331		29,331
253	0305114F	Air Traffic Control, Approach, and Landing System (ATCALS)	07	14,689	27,064		27,064	61,895		61,895
254	0305116F	Aerial Targets	07	5,870	5,011		5,011	1,704		1,704
257	0305128F	Security and Investigative Activities	07	463	7,855		7,855	9,642		9,642
258	0305146F	Defense Joint Counterintelligence Activities	07	6,387	6,524		6,524	2,469		2,469
259	0305155F	Theater Nuclear Weapon Storage & Security System	07					24,364		24,364
260	0305158F	Tactical Terminal	07	482	1,084		1,084			
261	0305179F	Integrated Broadcast Service (IBS)	07	15,006	19,085		19,085	18,266		18,266
262	0305206F	Airborne Reconnaissance Systems	07	115,637	65,432		65,432	34,273		34,273
263	0305207F	Manned Reconnaissance Systems	07	18,323	28,733		28,733	17,114		17,114
264	0305208F	Distributed Common Ground/Surface Systems	07	99,749	81,033		81,033	85,365		85,365
265	0305220F	RQ-4 UAV	07	6,171						
266	0305221F	Network-Centric Collaborative Targeting	07	9,952	12,019		12,019	9,146		9,146
267	0305238F	NATO AGS	07	865	816		816			
268	0305240F	ISR Transport and Processing	07	33,432	32,578		32,578	312,037		312,037
269	0305249F	AF JWICS Enterprise	07	9,445	13,404		13,404	19,324		19,324
270	0305600F	International Intelligence Technology and Architectures	07	17,784	18,946		18,946	62,000		62,000

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
271	0305836F	C2IMERA	07		13,690		13,690	11,393		11,393
272	0305903F	COCOM Mobile Command and Control Centers (MCCCs)	07		3,961		3,961	2,013		2,013
273	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07	3,272	2,851		2,851	1,783		1,783
274	0307577F	Intelligence Mission Data (IMD)	07	3,658	18,000		18,000	3,151		3,151
275	0401119F	C-5 Airlift Squadrons (IF)	07	25,825	33,320		33,320	76,233		76,233
276	0401130F	C-17 Aircraft (IF)	07	11,874	103,465	4,410	107,875	178,130		178,130
277	0401132F	C-130J Program	07	34,261	18,684		18,684	16,628		16,628
278	0401134F	Large Aircraft IR Countermeasures (LAIRCM)	07	7,484	40,955		40,955	12,323		12,323
279	0401218F	KC-135s	07	9,678		43,000	43,000	121,742		121,742
280	0401318F	CV-22	07	25,549	31,544		31,544	45,699		45,699
281	0401334F	Large Aircraft Survivability Systems (LASS)	07					50,111		50,111
282	0408011F	Special Tactics / Combat Control	07	9,146	28,200	10,000	38,200			
283	0708610F	Logistics Information Technology (LOGIT)	07	11,665	18,326		18,326	21,518		21,518
284	0801380F	AF LVC Operational Training (LVC-OT)	07	23,987	33,478		33,478	23,472		23,472
285	0804743F	Other Flight Training	07	1,116	2,338		2,338	1,950		1,950
286	0901202F	Joint Personnel Recovery Agency	07	2,235	2,051		2,051	2,035		2,035
287	0901218F	Civilian Compensation Program	07	4,267	4,355		4,355	4,248		4,248
288	0901220F	Personnel Administration	07	3,557	2,728		2,728	2,678		2,678
289	0901226F	Air Force Studies and Analysis Agency	07	9,578	14,559		14,559	81,252		81,252
290	0901231F	Counterdrug Support - HQ USAF	07	4,789						

UNCLASSIFIED

Department of the Air Force
FY 2027 President's Budget
Exhibit R-1
Total Obligation Authority
(Dollars in Thousands)

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

Line No	Program Element Number	Item	Act	FY 2025 Actuals	FY 2026 Discretionary Enacted	FY 2026 PL 119-21 Spend Plan	FY 2026 Total	FY 2027 Discretionary Request	FY 2027 Mandatory Request	FY 2027 Total
291	0901538F	Financial Management Information Systems Development	07	5,428	3,927		3,927	3,316		3,316
292	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07	55,836	38,408	20,000	58,408	38,301		38,301
293	1201921F	Service Support to STRATCOM - Space Activities	07		330		330	700		700
999	999999999	Classified Programs	07	18,258,364	18,003,033	1,378,393	19,381,426	29,113,107		29,113,107
		Operational system development		24,605,325	25,347,880	2,001,544	27,349,424	39,930,435	1,040,686	40,971,121
Total Research, Development, Test and Evaluation, Air Force				47,044,594	50,289,595	6,705,560	56,995,155	73,075,614	1,091,686	74,167,300

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • 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 - 33
5	02	0602102F	Materials.....	Volume 1 - 37
6	02	0602201F	Aerospace Vehicle Technologies.....	Volume 1 - 61
7	02	0602202F	Human Effectiveness Applied Research.....	Volume 1 - 65
8	02	0602203F	Aerospace Systems Technologies.....	Volume 1 - 89
9	02	0602204F	Aerospace Sensors.....	Volume 1 - 143
10	02	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358).....	Volume 1 - 173

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • 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 - 177
12	02	0602336F	Nuclear Delivery Systems Tech Exploration.....	Volume 1 - 181
13	02	0602602F	Conventional Munitions.....	Volume 1 - 189
14	02	0602605F	Directed Energy Technology.....	Volume 1 - 207
15	02	0602788F	Dominant Information Sciences and Methods.....	Volume 1 - 217

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 - 233
17	03	0603112F	Advanced Materials for Weapon Systems.....	Volume 1 - 251
18	03	0603199F	Sustainment Science and Technology (S&T).....	Volume 1 - 267
19	03	0603203F	Advanced Aerospace Sensors.....	Volume 1 - 273
20	03	0603211F	Aerospace Technology Dev/Demo.....	Volume 1 - 285
21	03	0603270F	Electronic Combat Technology.....	Volume 1 - 315
22	03	0603273F	Science & Technology for Nuclear Re-entry Systems.....	Volume 1 - 321
23	03	0603456F	Human Effectiveness Advanced Technology Development.....	Volume 1 - 331

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
24	03	0603601F	Conventional Weapons Technology.....	Volume 1 - 349
25	03	0603605F	Advanced Weapons Technology.....	Volume 1 - 365
26	03	0603680F	Manufacturing Technology Program.....	Volume 1 - 375
27	03	0603788F	Battlespace Knowledge Development and Demonstration.....	Volume 1 - 389
28	03	0604776F	Deployment & Distribution Enterprise R&D.....	Volume 1 - 403
29	03	0207412F	Control and Reporting Center (CRC).....	Volume 1 - 421

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
30	04	0603036F	Modular Advanced Missile.....	Volume 2 - 1
31	04	0603260F	Intelligence Advanced Development.....	Volume 2 - 7
32	04	0603677F	In-Transit Visibility (ITV) Modernization.....	Volume 2 - 19
33	04	0603742F	Combat Identification Technology.....	Volume 2 - 25
34	04	0603790F	NATO Research and Development.....	Volume 2 - 47
35	04	0603851F	Intercontinental Ballistic Missile - Dem/Val.....	Volume 2 - 53
36	04	0604001F	NC3 Advanced Concepts.....	Volume 2 - 79

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • 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 - 87
38	04	0604004F	Advanced Engine Development.....	Volume 2 - 111
39	04	0604005F	NC3 Commercial Development & Prototyping.....	Volume 2 - 119
40	04	0604007F	E-7.....	Volume 2 - 127
41	04	0604009F	AFWERX.....	Volume 2 - 135
42	04	0604010F	Next Generation Adaptive Propulsion.....	Volume 2 - 151
43	04	0604015F	Long Range Strike - Bomber.....	Volume 2 - 159
44	04	0604025F	Rapid Defense Experimentation Reserve (RDER).....	Volume 2 - 171
45	04	0604032F	Directed Energy Prototyping.....	Volume 2 - 177
46	04	0604033F	Hypersonics Prototyping.....	Volume 2 - 183
47	04	0604041F	Family of Affordable Mass Missiles (FAMM).....	Volume 2 - 193
48	04	0604060F	NORAD & USNORTHCOM (N&NC) Experimentation.....	Volume 2 - 201
49	04	0604183F	Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM).....	Volume 2 - 207
50	04	0604257F	Advanced Technology and Sensors.....	Volume 2 - 215
51	04	0604288F	Survivable Airborne Operations Center (SAOC).....	Volume 2 - 229
52	04	0604317F	Technology Transfer.....	Volume 2 - 237
53	04	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program.....	Volume 2 - 245
54	04	0604336F	Nuclear Delivery Systems Prototyping.....	Volume 2 - 253

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
55	04	0604343F	Advanced Tanker Systems.....	Volume 2 - 261
56	04	0604414F	Cyber Resiliency of Weapon Systems-ACS.....	Volume 2 - 269
57	04	0604609F	Requirements Analysis & Concept Maturation.....	Volume 2 - 289
58	04	0604668F	Joint Transportation Management System (JTMS).....	Volume 2 - 309
59	04	0604776F	Deployment & Distribution Enterprise R&D.....	Volume 2 - 317
60	04	0604858F	Tech Transition Program.....	Volume 2 - 329
61	04	0604860F	Operational Energy and Installation Resilience.....	Volume 2 - 363
62	04	0605057F	Next Generation Air-refueling System.....	Volume 2 - 381
63	04	0605164F	Air Refueling Capability Modernization.....	Volume 2 - 387
64	04	0606004F	Nuclear Enterprise Research & Development.....	Volume 2 - 393
65	04	0606005F	Digital Transformation Office.....	Volume 2 - 401
66	04	0207110F	F-47.....	Volume 2 - 413
67	04	0207147F	Collaborative Combat Aircraft.....	Volume 2 - 421
68	04	0207179F	Autonomous Collaborative Platforms.....	Volume 2 - 429
69	04	0207420F	Combat Identification.....	Volume 2 - 441
70	04	0207448F	C2ISR Tactical Data Link.....	Volume 2 - 447
71	04	0207455F	Three Dimensional Long-Range Radar (3DELRR).....	Volume 2 - 453
72	04	0207522F	Airbase Air Defense Systems (ABADS).....	Volume 2 - 461

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
73	04	0207606F	Joint Simulation Environment (JSE).....	Volume 2 - 473
74	04	0208030F	War Reserve Materiel - Ammunition.....	Volume 2 - 483
75	04	0302060F	Looking Glass Next.....	Volume 2 - 491
76	04	0303010F	AF ISR Digital Infrastructure.....	Volume 2 - 499
77	04	0305236F	Common Data Link Executive Agent (CDL EA).....	Volume 2 - 513
78	04	0305601F	Mission Partner Environments.....	Volume 2 - 525
79	04	0305913F	Persistent Surveillance.....	Volume 2 - 531
80	04	0701200F	Enterprise Select Class II.....	Volume 2 - 537
81	04	0708051F	Rapid Sustainment Modernization (RSM).....	Volume 2 - 543
82	04	0808736F	Special Victim Accountability and Investigation.....	Volume 2 - 553
83	04	0808737F	Integrated Primary Prevention.....	Volume 2 - 561
84	04	0901410F	Contracting Information Technology System.....	Volume 2 - 571
85	04	1206415F	U.S. Space Command Research and Development Support.....	Volume 2 - 581

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
86	05	0604200F	Future Advanced Weapon Analysis & Programs.....	Volume 2 - 593
87	05	0604201F	PNT Resiliency, Mods, and Improvements.....	Volume 2 - 603
88	05	0604222F	Nuclear Weapons Support.....	Volume 2 - 619
89	05	0604270F	Electronic Warfare Development.....	Volume 2 - 645
90	05	0604281F	Tactical Data Networks Enterprise.....	Volume 2 - 677
91	05	0604287F	Physical Security Equipment.....	Volume 2 - 693
92	05	0604288F	Survivable Airborne Operations Center (SAOC).....	Volume 2 - 701
93	05	0604602F	Armament/Ordnance Development.....	Volume 2 - 711
94	05	0604604F	Submunitions.....	Volume 2 - 727
95	05	0604617F	Agile Combat Support.....	Volume 2 - 735
96	05	0604706F	Life Support Systems.....	Volume 2 - 753
97	05	0604735F	Combat Training Ranges.....	Volume 2 - 761
98	05	0604932F	Long Range Standoff Weapon.....	Volume 2 - 775
99	05	0604933F	ICBM Fuze Modernization.....	Volume 2 - 793
100	05	0605056F	Open Architecture Management.....	Volume 2 - 801
101	05	0605223F	Advanced Pilot Training.....	Volume 2 - 809

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
102	05	0605238F	Ground Based Strategic Deterrent EMD.....	Volume 2 - 817
103	05	0605296F	Microelectronics Secure Enclave.....	Volume 2 - 839
104	05	0101125F	Nuclear Weapons Modernization.....	Volume 2 - 847
105	05	0102417F	Over-the-Horizon Backscatter Radar.....	Volume 2 - 863
106	05	0207039F	Cognitive Electromagnetic Warfare.....	Volume 2 - 879
107	05	0207110F	F-47.....	Volume 2 - 887
108	05	0207279F	Isolated Personnel Survivability and Recovery.....	Volume 2 - 895
109	05	0207328F	Stand In Attack Weapon.....	Volume 2 - 911
110	05	0207407F	Electromagnetic Battle Management (EMBM).....	Volume 2 - 921
111	05	0207701F	Full Combat Mission Training.....	Volume 2 - 929
112	05	0303008F	SATURN.....	Volume 2 - 939
113	05	0303267F	Auctioned Spectrum Relocation Fund.....	Volume 2 - 953
114	05	0303867F	AMBIT - Post-Auctioned SRF.....	Volume 2 - 959
115	05	0305155F	Theater Nuclear Weapon Storage & Security System.....	Volume 2 - 965
116	05	0305282F	Joint Fires Network (JFN).....	Volume 2 - 973
117	05	0401221F	KC-46A Tanker Squadrons.....	Volume 2 - 979
118	05	0401319F	VC-25B.....	Volume 2 - 1005
119	05	0401334F	Large Aircraft Survivability Systems (LASS).....	Volume 2 - 1013

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
120	05	0701212F	Automated Test Systems.....	Volume 2 - 1019
121	05	0804772F	Training Developments.....	Volume 2 - 1037
122	05	1203176F	Combat Survivor Evader Locator.....	Volume 2 - 1045

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
123	06	0604256F	Threat Simulator Development.....	Volume 3 - 1
124	06	0604759F	Major T&E Investment.....	Volume 3 - 11
125	06	0605101F	RAND Project Air Force.....	Volume 3 - 19
126	06	0605502F	Small Business Innovation Research.....	Volume 3 - 23
127	06	0605712F	Initial Operational Test & Evaluation.....	Volume 3 - 27
128	06	0605807F	Test and Evaluation Support.....	Volume 3 - 33
129	06	0605827F	Acq Workforce- Global Vig & Combat Sys.....	Volume 3 - 43
130	06	0605828F	Acq Workforce- Global Reach.....	Volume 3 - 47
131	06	0605829F	Acq Workforce- Cyber, Network, & Bus Sys.....	Volume 3 - 53
132	06	0605831F	Acq Workforce- Capability Integration.....	Volume 3 - 59

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
133	06	0605832F	Acq Workforce- Advanced Prgm Technology.....	Volume 3 - 73
134	06	0605833F	Acq Workforce- Nuclear Systems.....	Volume 3 - 77
135	06	0605898F	Management HQ - R&D.....	Volume 3 - 81
136	06	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support.....	Volume 3 - 85
137	06	0605978F	Facilities Sustainment - Test and Evaluation Support.....	Volume 3 - 89
138	06	0606017F	Requirements Analysis and Maturation.....	Volume 3 - 95
139	06	0606398F	Management HQ - T&E.....	Volume 3 - 107
140	06	0208201F	Offensive small Unmanned Aircraft Systems (sUAS).....	Volume 3 - 111
141	06	0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM.....	Volume 3 - 115
142	06	0308602F	ENTEPRISE INFORMATION SERVICES (EIS).....	Volume 3 - 121
143	06	0702806F	Acquisition and Management Support.....	Volume 3 - 129
144	06	0804776F	Advanced Distributed Learning.....	Volume 3 - 137
145	06	0901215F	Productivity Investments.....	Volume 3 - 139
146	06	0909999F	Financing for Cancelled Account Adjustments.....	Volume 3 - 143
147	06	1001004F	International Activities.....	Volume 3 - 145

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
148	07	0604222F	Nuclear Weapons Support.....	Volume 3 - 149
149	07	0604233F	Specialized Undergraduate Flight Training.....	Volume 3 - 155
150	07	0604283F	Battle Mgmt Com & Ctrl Sensor Development.....	Volume 3 - 175
151	07	0604445F	Wide Area Surveillance.....	Volume 3 - 183
152	07	0604840F	F-35 C2D2.....	Volume 3 - 189
153	07	0605018F	AF Integrated Personnel and Pay System (AF-IPPS).....	Volume 3 - 269
154	07	0605024F	Anti-Tamper Technology Executive Agency.....	Volume 3 - 279
155	07	0605117F	Foreign Materiel Acquisition and Exploitation.....	Volume 3 - 287
156	07	0605229F	HH-60W.....	Volume 3 - 295
157	07	0605278F	HC/MC-130 Recap RDT&E.....	Volume 3 - 323
158	07	0606018F	NC3 Integration.....	Volume 3 - 341
159	07	0101113F	B-52 Squadrons.....	Volume 3 - 351
160	07	0101122F	Air-Launched Cruise Missile (ALCM).....	Volume 3 - 421
161	07	0101126F	B-1B Squadrons.....	Volume 3 - 427
162	07	0101127F	B-2 Squadrons.....	Volume 3 - 449
163	07	0101213F	Minuteman Squadrons.....	Volume 3 - 471

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
164	07	0101316F	Worldwide Joint Strategic Communications.....	Volume 3 - 503
165	07	0101318F	Service Support to STRATCOM - Global Strike.....	Volume 3 - 511
166	07	0101328F	ICBM Reentry Vehicles.....	Volume 3 - 519
168	07	0102110F	MH-139A.....	Volume 3 - 541
169	07	0102326F	Region/Sector Operation Control Center Modernization Program.....	Volume 3 - 551
170	07	0102417F	Over-the-Horizon Backscatter Radar.....	Volume 3 - 557
171	07	0202834F	Aviation Support Equipment - General.....	Volume 3 - 565
172	07	0203345F	Operations Security (OPSEC).....	Volume 3 - 573
173	07	0205219F	MQ-9 UAV.....	Volume 3 - 581
174	07	0205671F	Joint Counter RCIED Electronic Warfare.....	Volume 3 - 601
175	07	0207040F	Multi-Platform Electronic Warfare Equipment.....	Volume 3 - 607
176	07	0207133F	F-16 Squadrons.....	Volume 3 - 613
177	07	0207134F	F-15E Squadrons.....	Volume 3 - 633
178	07	0207136F	Manned Destructive Suppression.....	Volume 3 - 645
179	07	0207138F	F-22A Squadrons.....	Volume 3 - 653
180	07	0207142F	F-35 Squadrons.....	Volume 3 - 673
181	07	0207146F	F-15EX.....	Volume 3 - 689
182	07	0207161F	Tactical AIM Missiles.....	Volume 3 - 699

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
183	07	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM).....	Volume 3 - 709
184	07	0207172F	Joint Advanced Tactical Missile (JATM).....	Volume 3 - 719
185	07	0207227F	Combat Rescue - Pararescue.....	Volume 3 - 725
186	07	0207238F	E-11A.....	Volume 3 - 731
187	07	0207242F	Special Program Applications.....	Volume 3 - 745
188	07	0207247F	AF TENCAP.....	Volume 3 - 747
189	07	0207249F	Precision Attack Systems Procurement.....	Volume 3 - 755
190	07	0207253F	Compass Call.....	Volume 3 - 761
191	07	0207268F	Aircraft Engine Component Improvement Program.....	Volume 3 - 777
192	07	0207325F	Joint Air-to-Surface Standoff Missile (JASSM).....	Volume 3 - 793
193	07	0207327F	Small Diameter Bomb (SDB).....	Volume 3 - 803
194	07	0207410F	Air & Space Operations Center (AOC).....	Volume 3 - 813
195	07	0207412F	Control and Reporting Center (CRC).....	Volume 4 - 1
196	07	0207418F	AFSPECWAR - TACP.....	Volume 4 - 9
198	07	0207431F	Combat Air Intelligence System Activities.....	Volume 4 - 17
199	07	0207438F	Theater Battle Management (TBM) C4I.....	Volume 4 - 33
200	07	0207439F	Electromagnetic Warfare Int Reprog (EWIR).....	Volume 4 - 39
201	07	0207444F	Tactical Air Control Party-Mod.....	Volume 4 - 61

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
202	07	0207452F	DCAPES.....	Volume 4 - 71
203	07	0207457F	Air Force Special Warfare (SPECWAR).....	Volume 4 - 81
204	07	0207461F	Flight Operations Systems.....	Volume 4 - 113
205	07	0207521F	Air Force Calibration Programs.....	Volume 4 - 121
206	07	0207573F	National Technical Nuclear Forensics.....	Volume 4 - 129
207	07	0207590F	Seek Eagle.....	Volume 4 - 135
208	07	0207611F	Readiness Decision Support Enterprise.....	Volume 4 - 145
209	07	0207697F	Distributed Training and Exercises.....	Volume 4 - 151
210	07	0207701F	Full Combat Mission Training.....	Volume 4 - 157
211	07	0208006F	Mission Planning Systems.....	Volume 4 - 167
212	07	0208007F	Tactical Deception.....	Volume 4 - 187
213	07	0208087F	Distributed Cyber Warfare Operations.....	Volume 4 - 195
214	07	0208088F	AF Defensive Cyberspace Operations.....	Volume 4 - 203
218	07	0208288F	Intel Data Applications.....	Volume 4 - 221
219	07	0301025F	GeoBase.....	Volume 4 - 227
220	07	0301113F	Cyber Security Intelligence Support.....	Volume 4 - 233
226	07	0301377F	Countering Advanced Conventional Weapons (CACW).....	Volume 4 - 239
228	07	0301401F	AF Multi-Domain Non-Traditional ISR Battlespace Awareness.....	Volume 4 - 245

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
229	07	0302015F	E-4B National Airborne Operations Center (NAOC).....	Volume 4 - 251
230	07	0302315F	Non-Kinetic Countermeasure Support.....	Volume 4 - 259
231	07	0303004F	EIT CONNECT.....	Volume 4 - 265
232	07	0303089F	Cyberspace and DoDIN Operations.....	Volume 4 - 271
233	07	0303131F	Minimum Essential Emergency Communications Network (MEECN).....	Volume 4 - 277
234	07	0303133F	High Frequency Radio Systems.....	Volume 4 - 331
235	07	0303140F	Information Systems Security Program.....	Volume 4 - 343
236	07	0303248F	All Domain Common Platform.....	Volume 4 - 357
237	07	0303260F	Joint Military Deception Initiative.....	Volume 4 - 365
238	07	0304100F	Strategic Mission Planning & Execution System (SMPES).....	Volume 4 - 371
239	07	0304109F	THRESHER.....	Volume 4 - 387
242	07	0304260F	Airborne SIGINT Enterprise.....	Volume 4 - 393
243	07	0304310F	Commercial Economic Analysis.....	Volume 4 - 419
246	07	0304784F	Long Endurance - Airborne ISR.....	Volume 4 - 425
247	07	0305015F	C2 Air Operations Suite - C2 Info Services.....	Volume 4 - 433
248	07	0305020F	CCMD Intelligence Information Technology.....	Volume 4 - 439
249	07	0305022F	ISR Modernization & Automation Dvmt (IMAD).....	Volume 4 - 445
250	07	0305099F	Global Air Traffic Management (GATM).....	Volume 4 - 457

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
251	07	0305103F	Cyber Security Initiative.....	Volume 4 - 465
252	07	0305111F	Weather Service.....	Volume 4 - 471
253	07	0305114F	Air Traffic Control, Approach, and Landing System (ATCALs).....	Volume 4 - 485
254	07	0305116F	Aerial Targets.....	Volume 4 - 499
257	07	0305128F	Security and Investigative Activities.....	Volume 4 - 507
258	07	0305146F	Defense Joint Counterintelligence Activities.....	Volume 4 - 513
259	07	0305155F	Theater Nuclear Weapon Storage & Security System.....	Volume 4 - 519
260	07	0305158F	Tactical Terminal.....	Volume 4 - 525
261	07	0305179F	Integrated Broadcast Service (IBS).....	Volume 4 - 537
262	07	0305206F	Airborne Reconnaissance Systems.....	Volume 4 - 547
263	07	0305207F	Manned Reconnaissance Systems.....	Volume 4 - 587
264	07	0305208F	Distributed Common Ground/Surface Systems.....	Volume 4 - 597
265	07	0305220F	RQ-4 UAV.....	Volume 4 - 613
266	07	0305221F	Network-Centric Collaborative Targeting.....	Volume 4 - 621
267	07	0305238F	NATO AGS.....	Volume 4 - 627
268	07	0305240F	ISR Transport and Processing.....	Volume 4 - 633
269	07	0305249F	AF JWICS Enterprise.....	Volume 4 - 651
270	07	0305600F	International Intelligence Technology and Architectures.....	Volume 4 - 659

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
271	07	0305836F	C2IMERA.....	Volume 4 - 665
272	07	0305903F	Mobile Command Center Systems (MC2S).....	Volume 4 - 673
273	07	0305984F	Personnel Recovery Command & Ctrl (PRC2).....	Volume 4 - 679
274	07	0307577F	Intelligence Mission Data (IMD).....	Volume 4 - 687
275	07	0401119F	C-5 Airlift Squadrons (IF).....	Volume 4 - 693
276	07	0401130F	C-17 Aircraft (IF).....	Volume 4 - 707
277	07	0401132F	C-130J Program.....	Volume 4 - 717
278	07	0401134F	Large Aircraft IR Countermeasures (LAIRCM).....	Volume 4 - 733
279	07	0401218F	KC-135s.....	Volume 4 - 753
280	07	0401318F	CV-22.....	Volume 4 - 765
281	07	0401334F	Large Aircraft Survivability Systems (LASS).....	Volume 4 - 773
282	07	0408011F	Special Tactics / Combat Control.....	Volume 4 - 781
283	07	0708610F	Logistics Information Technology (LOGIT).....	Volume 4 - 789
284	07	0801380F	AF LVC Operational Training (LVC-OT).....	Volume 4 - 803
285	07	0804743F	Other Flight Training.....	Volume 4 - 817
286	07	0901202F	Joint Personnel Recovery Agency.....	Volume 4 - 831
287	07	0901218F	Civilian Compensation Program.....	Volume 4 - 837
288	07	0901220F	Personnel Administration.....	Volume 4 - 843

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

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

Line #	Budget Activity	Program Element Number	Program Element Title	Page
289	07	0901226F	Air Force Studies and Analysis Agency.....	Volume 4 - 853
291	07	0901538F	Financial Management Information Systems Development.....	Volume 4 - 863
292	07	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS).....	Volume 4 - 873
293	07	1201921F	Service Support to STRATCOM - Space Activities.....	Volume 4 - 885

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • 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 - 203
AF ISR Digital Infrastructure	0303010F	76	04.....	Volume 2 - 499
AF Integrated Personnel and Pay System (AF-IPPS)	0605018F	153	07.....	Volume 3 - 269
AF JWICS Enterprise	0305249F	269	07.....	Volume 4 - 651
AF LVC Operational Training (LVC-OT)	0801380F	284	07.....	Volume 4 - 803
AF Multi-Domain Non-Traditional ISR Battlespace Awareness	0301401F	228	07.....	Volume 4 - 245
AF TENCAP	0207247F	188	07.....	Volume 3 - 747
AFSPECWAR - TACP	0207418F	196	07.....	Volume 4 - 9
AFWERX	0604009F	41	04.....	Volume 2 - 135
AMBIT - Post-Auctioned SRF	0303867F	114	05.....	Volume 2 - 959
Acq Workforce- Advanced Prgm Technology	0605832F	133	06.....	Volume 3 - 73
Acq Workforce- Capability Integration	0605831F	132	06.....	Volume 3 - 59
Acq Workforce- Cyber, Network, & Bus Sys	0605829F	131	06.....	Volume 3 - 53
Acq Workforce- Global Reach	0605828F	130	06.....	Volume 3 - 47
Acq Workforce- Global Vig & Combat Sys	0605827F	129	06.....	Volume 3 - 43
Acq Workforce- Nuclear Systems	0605833F	134	06.....	Volume 3 - 77
Acquisition and Management Support	0702806F	143	06.....	Volume 3 - 129

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Advanced Aerospace Sensors	0603203F	19	03.....	Volume 1 - 273
Advanced Battle Management System (ABMS)	0604003F	37	04.....	Volume 2 - 87
Advanced Distributed Learning	0804776F	144	06.....	Volume 3 - 137
Advanced Engine Development	0604004F	38	04.....	Volume 2 - 111
Advanced Materials for Weapon Systems	0603112F	17	03.....	Volume 1 - 251
Advanced Medium Range Air-to-Air Missile (AMRAAM)	0207163F	183	07.....	Volume 3 - 709
Advanced Pilot Training	0605223F	101	05.....	Volume 2 - 809
Advanced Tanker Systems	0604343F	55	04.....	Volume 2 - 261
Advanced Technology and Sensors	0604257F	50	04.....	Volume 2 - 215
Advanced Weapons Technology	0603605F	25	03.....	Volume 1 - 365
Aerial Targets	0305116F	254	07.....	Volume 4 - 499
Aerospace Sensors	0602204F	9	02.....	Volume 1 - 143
Aerospace Systems Technologies	0602203F	8	02.....	Volume 1 - 89
Aerospace Technology Dev/Demo	0603211F	20	03.....	Volume 1 - 285
Aerospace Vehicle Technologies	0602201F	6	02.....	Volume 1 - 61
Agile Combat Support	0604617F	95	05.....	Volume 2 - 735
Air & Space Operations Center (AOC)	0207410F	194	07.....	Volume 3 - 813
Air Force Calibration Programs	0207521F	205	07.....	Volume 4 - 121
Air Force Special Warfare (SPECWAR)	0207457F	203	07.....	Volume 4 - 81

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Air Force Studies and Analysis Agency	0901226F	289	07.....	Volume 4 - 853
Air Refueling Capability Modernization	0605164F	63	04.....	Volume 2 - 387
Air Traffic Control, Approach, and Landing System (ATCALs)	0305114F	253	07.....	Volume 4 - 485
Air-Launched Cruise Missile (ALCM)	0101122F	160	07.....	Volume 3 - 421
Airbase Air Defense Systems (ABADS)	0207522F	72	04.....	Volume 2 - 461
Airborne Reconnaissance Systems	0305206F	262	07.....	Volume 4 - 547
Airborne SIGINT Enterprise	0304260F	242	07.....	Volume 4 - 393
Aircraft Engine Component Improvement Program	0207268F	191	07.....	Volume 3 - 777
All Domain Common Platform	0303248F	236	07.....	Volume 4 - 357
Anti-Tamper Technology Executive Agency	0605024F	154	07.....	Volume 3 - 279
Armament/Ordnance Development	0604602F	93	05.....	Volume 2 - 711
Auctioned Spectrum Relocation Fund	0303267F	113	05.....	Volume 2 - 953
Automated Test Systems	0701212F	120	05.....	Volume 2 - 1019
Autonomous Collaborative Platforms	0207179F	68	04.....	Volume 2 - 429
Aviation Support Equipment - General	0202834F	171	07.....	Volume 3 - 565
B-1B Squadrons	0101126F	161	07.....	Volume 3 - 427
B-2 Squadrons	0101127F	162	07.....	Volume 3 - 449
B-52 Squadrons	0101113F	159	07.....	Volume 3 - 351
Battle Mgmt Com & Ctrl Sensor Development	0604283F	150	07.....	Volume 3 - 175

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Battlespace Knowledge Development and Demonstration	0603788F	27	03.....	Volume 1 - 389
C-130J Program	0401132F	277	07.....	Volume 4 - 717
C-17 Aircraft (IF)	0401130F	276	07.....	Volume 4 - 707
C-5 Airlift Squadrons (IF)	0401119F	275	07.....	Volume 4 - 693
C2 Air Operations Suite - C2 Info Services	0305015F	247	07.....	Volume 4 - 433
C2IMERA	0305836F	271	07.....	Volume 4 - 665
C2ISR Tactical Data Link	0207448F	70	04.....	Volume 2 - 447
CCMD Intelligence Information Technology	0305020F	248	07.....	Volume 4 - 439
CV-22	0401318F	280	07.....	Volume 4 - 765
Civilian Compensation Program	0901218F	287	07.....	Volume 4 - 837
Cognitive Electromagnetic Warfare	0207039F	106	05.....	Volume 2 - 879
Collaborative Combat Aircraft	0207147F	67	04.....	Volume 2 - 421
Combat Air Intelligence System Activities	0207431F	198	07.....	Volume 4 - 17
Combat Identification	0207420F	69	04.....	Volume 2 - 441
Combat Identification Technology	0603742F	33	04.....	Volume 2 - 25
Combat Rescue - Pararescue	0207227F	185	07.....	Volume 3 - 725
Combat Survivor Evader Locator	1203176F	122	05.....	Volume 2 - 1045
Combat Training Ranges	0604735F	97	05.....	Volume 2 - 761
Command, Control, Communication, and Computers (C4) - STRATCOM	0303255F	141	06.....	Volume 3 - 115

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Commercial Economic Analysis	0304310F	243	07.....	Volume 4 - 419
Common Data Link Executive Agent (CDL EA)	0305236F	77	04.....	Volume 2 - 513
Compass Call	0207253F	190	07.....	Volume 3 - 761
Contracting Information Technology System	0901410F	84	04.....	Volume 2 - 571
Control and Reporting Center (CRC)	0207412F	29	03.....	Volume 1 - 421
Control and Reporting Center (CRC)	0207412F	195	07.....	Volume 4 - 1
Conventional Munitions	0602602F	13	02.....	Volume 1 - 189
Conventional Weapons Technology	0603601F	24	03.....	Volume 1 - 349
Countering Advanced Conventional Weapons (CACW)	0301377F	226	07.....	Volume 4 - 239
Cyber Resiliency of Weapon Systems-ACS	0604414F	56	04.....	Volume 2 - 269
Cyber Security Initiative	0305103F	251	07.....	Volume 4 - 465
Cyber Security Intelligence Support	0301113F	220	07.....	Volume 4 - 233
Cyberspace and DoDIN Operations	0303089F	232	07.....	Volume 4 - 271
DCAPES	0207452F	202	07.....	Volume 4 - 71
Defense Enterprise Acntng and Mgt Sys (DEAMS)	0901554F	292	07.....	Volume 4 - 873
Defense Joint Counterintelligence Activities	0305146F	258	07.....	Volume 4 - 513
Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	0602212F	10	02.....	Volume 1 - 173
Defense Research Sciences	0601102F	1	01.....	Volume 1 - 1
Deployment & Distribution Enterprise R&D	0604776F	28	03.....	Volume 1 - 403

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Deployment & Distribution Enterprise R&D	0604776F	59	04.....	Volume 2 - 317
Digital Transformation Office	0606005F	65	04.....	Volume 2 - 401
Directed Energy Prototyping	0604032F	45	04.....	Volume 2 - 177
Directed Energy Technology	0602605F	14	02.....	Volume 1 - 207
Distributed Common Ground/Surface Systems	0305208F	264	07.....	Volume 4 - 597
Distributed Cyber Warfare Operations	0208087F	213	07.....	Volume 4 - 195
Distributed Training and Exercises	0207697F	209	07.....	Volume 4 - 151
Dominant Information Sciences and Methods	0602788F	15	02.....	Volume 1 - 217
E-11A	0207238F	186	07.....	Volume 3 - 731
E-4B National Airborne Operations Center (NAOC)	0302015F	229	07.....	Volume 4 - 251
E-7	0604007F	40	04.....	Volume 2 - 127
EIT CONNECT	0303004F	231	07.....	Volume 4 - 265
ENTEPRISE INFORMATION SERVICES (EIS)	0308602F	142	06.....	Volume 3 - 121
Electromagnetic Battle Management (EMBM)	0207407F	110	05.....	Volume 2 - 921
Electromagnetic Warfare Int Reprog (EWIR)	0207439F	200	07.....	Volume 4 - 39
Electronic Combat Technology	0603270F	21	03.....	Volume 1 - 315
Electronic Warfare Development	0604270F	89	05.....	Volume 2 - 645
Enterprise Select Class II	0701200F	80	04.....	Volume 2 - 537
F-15E Squadrons	0207134F	177	07.....	Volume 3 - 633

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
F-15EX	0207146F	181	07.....	Volume 3 - 689
F-16 Squadrons	0207133F	176	07.....	Volume 3 - 613
F-22A Squadrons	0207138F	179	07.....	Volume 3 - 653
F-35 C2D2	0604840F	152	07.....	Volume 3 - 189
F-35 Squadrons	0207142F	180	07.....	Volume 3 - 673
F-47	0207110F	66	04.....	Volume 2 - 413
F-47	0207110F	107	05.....	Volume 2 - 887
Facilities Restoration and Modernization - Test and Evaluation Support	0605976F	136	06.....	Volume 3 - 85
Facilities Sustainment - Test and Evaluation Support	0605978F	137	06.....	Volume 3 - 89
Family of Affordable Mass Missiles (FAMM)	0604041F	47	04.....	Volume 2 - 193
Financial Management Information Systems Development	0901538F	291	07.....	Volume 4 - 863
Financing for Cancelled Account Adjustments	0909999F	146	06.....	Volume 3 - 143
Flight Operations Systems	0207461F	204	07.....	Volume 4 - 113
Foreign Materiel Acquisition and Exploitation	0605117F	155	07.....	Volume 3 - 287
Full Combat Mission Training	0207701F	111	05.....	Volume 2 - 929
Full Combat Mission Training	0207701F	210	07.....	Volume 4 - 157
Future AF Capabilities Applied Research	0602020F	3	02.....	Volume 1 - 27
Future AF Integrated Technology Demos	0603032F	16	03.....	Volume 1 - 233
Future Advanced Weapon Analysis & Programs	0604200F	86	05.....	Volume 2 - 593

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
GeoBase	0301025F	219	07.....	Volume 4 - 227
Global Air Traffic Management (GATM)	0305099F	250	07.....	Volume 4 - 457
Ground Based Strategic Deterrent EMD	0605238F	102	05.....	Volume 2 - 817
HC/MC-130 Recap RDT&E	0605278F	157	07.....	Volume 3 - 323
HH-60W	0605229F	156	07.....	Volume 3 - 295
Hard and Deeply Buried Target Defeat System (HDBTDS) Program	0604327F	53	04.....	Volume 2 - 245
High Frequency Radio Systems	0303133F	234	07.....	Volume 4 - 331
Human Effectiveness Advanced Technology Development	0603456F	23	03.....	Volume 1 - 331
Human Effectiveness Applied Research	0602202F	7	02.....	Volume 1 - 65
Hypersonics Prototyping	0604033F	46	04.....	Volume 2 - 183
Hypersonics Prototyping - Hypersonic Attack Cruise Missile (HACM)	0604183F	49	04.....	Volume 2 - 207
ICBM Fuze Modernization	0604933F	99	05.....	Volume 2 - 793
ICBM Reentry Vehicles	0101328F	166	07.....	Volume 3 - 519
ISR Modernization & Automation Dvmt (IMAD)	0305022F	249	07.....	Volume 4 - 445
ISR Transport and Processing	0305240F	268	07.....	Volume 4 - 633
In-Transit Visibility (ITV) Modernization	0603677F	32	04.....	Volume 2 - 19
Information Systems Security Program	0303140F	235	07.....	Volume 4 - 343
Initial Operational Test & Evaluation	0605712F	127	06.....	Volume 3 - 27
Integrated Broadcast Service (IBS)	0305179F	261	07.....	Volume 4 - 537

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Integrated Primary Prevention	0808737F	83	04.....	Volume 2 - 561
Intel Data Applications	0208288F	218	07.....	Volume 4 - 221
Intelligence Advanced Development	0603260F	31	04.....	Volume 2 - 7
Intelligence Mission Data (IMD)	0307577F	274	07.....	Volume 4 - 687
Intercontinental Ballistic Missile - Dem/Val	0603851F	35	04.....	Volume 2 - 53
International Activities	1001004F	147	06.....	Volume 3 - 145
International Intelligence Technology and Architectures	0305600F	270	07.....	Volume 4 - 659
Isolated Personnel Survivability and Recovery	0207279F	108	05.....	Volume 2 - 895
Joint Advanced Tactical Missile (JATM)	0207172F	184	07.....	Volume 3 - 719
Joint Air-to-Surface Standoff Missile (JASSM)	0207325F	192	07.....	Volume 3 - 793
Joint Counter RCIED Electronic Warfare	0205671F	174	07.....	Volume 3 - 601
Joint Fires Network (JFN)	0305282F	116	05.....	Volume 2 - 973
Joint Military Deception Initiative	0303260F	237	07.....	Volume 4 - 365
Joint Personnel Recovery Agency	0901202F	286	07.....	Volume 4 - 831
Joint Simulation Environment (JSE)	0207606F	73	04.....	Volume 2 - 473
Joint Transportation Management System (JTMS)	0604668F	58	04.....	Volume 2 - 309
KC-135s	0401218F	279	07.....	Volume 4 - 753
KC-46A Tanker Squadrons	0401221F	117	05.....	Volume 2 - 979
Large Aircraft IR Countermeasures (LAIRCM)	0401134F	278	07.....	Volume 4 - 733

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Large Aircraft Survivability Systems (LASS)	0401334F	119	05.....	Volume 2 - 1013
Large Aircraft Survivability Systems (LASS)	0401334F	281	07.....	Volume 4 - 773
Life Support Systems	0604706F	96	05.....	Volume 2 - 753
Logistics Information Technology (LOGIT)	0708610F	283	07.....	Volume 4 - 789
Long Endurance - Airborne ISR	0304784F	246	07.....	Volume 4 - 425
Long Range Standoff Weapon	0604932F	98	05.....	Volume 2 - 775
Long Range Strike - Bomber	0604015F	43	04.....	Volume 2 - 159
Looking Glass Next	0302060F	75	04.....	Volume 2 - 491
MH-139A	0102110F	168	07.....	Volume 3 - 541
MQ-9 UAV	0205219F	173	07.....	Volume 3 - 581
Major T&E Investment	0604759F	124	06.....	Volume 3 - 11
Management HQ - R&D	0605898F	135	06.....	Volume 3 - 81
Management HQ - T&E	0606398F	139	06.....	Volume 3 - 107
Manned Destructive Suppression	0207136F	178	07.....	Volume 3 - 645
Manned Reconnaissance Systems	0305207F	263	07.....	Volume 4 - 587
Manufacturing Technology Program	0603680F	26	03.....	Volume 1 - 375
Materials	0602102F	5	02.....	Volume 1 - 37
Microelectronics Secure Enclave	0605296F	103	05.....	Volume 2 - 839
Minimum Essential Emergency Communications Network (MEECN)	0303131F	233	07.....	Volume 4 - 277

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Minuteman Squadrons	0101213F	163	07.....	Volume 3 - 471
Mission Partner Environments	0305601F	78	04.....	Volume 2 - 525
Mission Planning Systems	0208006F	211	07.....	Volume 4 - 167
Mobile Command Center Systems (MC2S)	0305903F	272	07.....	Volume 4 - 673
Modular Advanced Missile	0603036F	30	04.....	Volume 2 - 1
Multi-Platform Electronic Warfare Equipment	0207040F	175	07.....	Volume 3 - 607
NATO AGS	0305238F	267	07.....	Volume 4 - 627
NATO Research and Development	0603790F	34	04.....	Volume 2 - 47
NC3 Advanced Concepts	0604001F	36	04.....	Volume 2 - 79
NC3 Commercial Development & Prototyping	0604005F	39	04.....	Volume 2 - 119
NC3 Integration	0606018F	158	07.....	Volume 3 - 341
NORAD & USNORTHCOM (N&NC) Experimentation	0604060F	48	04.....	Volume 2 - 201
National Technical Nuclear Forensics	0207573F	206	07.....	Volume 4 - 129
Network-Centric Collaborative Targeting	0305221F	266	07.....	Volume 4 - 621
Next Generation Adaptive Propulsion	0604010F	42	04.....	Volume 2 - 151
Next Generation Air-refueling System	0605057F	62	04.....	Volume 2 - 381
Non-Kinetic Countermeasure Support	0302315F	230	07.....	Volume 4 - 259
Nuclear Delivery Systems Prototyping	0604336F	54	04.....	Volume 2 - 253
Nuclear Delivery Systems Tech Exploration	0602336F	12	02.....	Volume 1 - 181

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Nuclear Enterprise Research & Development	0606004F	64	04.....	Volume 2 - 393
Nuclear Weapons Modernization	0101125F	104	05.....	Volume 2 - 847
Nuclear Weapons Support	0604222F	88	05.....	Volume 2 - 619
Nuclear Weapons Support	0604222F	148	07.....	Volume 3 - 149
Offensive small Unmanned Aircraft Systems (sUAS)	0208201F	140	06.....	Volume 3 - 111
Open Architecture Management	0605056F	100	05.....	Volume 2 - 801
Operational Energy and Installation Resilience	0604860F	61	04.....	Volume 2 - 363
Operations Security (OPSEC)	0203345F	172	07.....	Volume 3 - 573
Other Flight Training	0804743F	285	07.....	Volume 4 - 817
Over-the-Horizon Backscatter Radar	0102417F	105	05.....	Volume 2 - 863
Over-the-Horizon Backscatter Radar	0102417F	170	07.....	Volume 3 - 557
PNT Resiliency, Mods, and Improvements	0604201F	87	05.....	Volume 2 - 603
Persistent Surveillance	0305913F	79	04.....	Volume 2 - 531
Personnel Administration	0901220F	288	07.....	Volume 4 - 843
Personnel Recovery Command & Ctrl (PRC2)	0305984F	273	07.....	Volume 4 - 679
Physical Security Equipment	0604287F	91	05.....	Volume 2 - 693
Precision Attack Systems Procurement	0207249F	189	07.....	Volume 3 - 755
Productivity Investments	0901215F	145	06.....	Volume 3 - 139
RAND Project Air Force	0605101F	125	06.....	Volume 3 - 19

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
RQ-4 UAV	0305220F	265	07.....	Volume 4 - 613
Rapid Defense Experimentation Reserve (RDER)	0604025F	44	04.....	Volume 2 - 171
Rapid Sustainment Modernization (RSM)	0708051F	81	04.....	Volume 2 - 543
Readiness Decision Support Enterprise	0207611F	208	07.....	Volume 4 - 145
Region/Sector Operation Control Center Modernization Program	0102326F	169	07.....	Volume 3 - 551
Requirements Analysis & Concept Maturation	0604609F	57	04.....	Volume 2 - 289
Requirements Analysis and Maturation	0606017F	138	06.....	Volume 3 - 95
SATURN	0303008F	112	05.....	Volume 2 - 939
Science & Technology for Nuclear Re-entry Systems	0603273F	22	03.....	Volume 1 - 321
Science and Technology Management - Major Headquarters Activities	0602298F	11	02.....	Volume 1 - 177
Security and Investigative Activities	0305128F	257	07.....	Volume 4 - 507
Seek Eagle	0207590F	207	07.....	Volume 4 - 135
Service Support to STRATCOM - Global Strike	0101318F	165	07.....	Volume 3 - 511
Service Support to STRATCOM - Space Activities	1201921F	293	07.....	Volume 4 - 885
Small Business Innovation Research	0605502F	126	06.....	Volume 3 - 23
Small Diameter Bomb (SDB)	0207327F	193	07.....	Volume 3 - 803
Special Program Applications	0207242F	187	07.....	Volume 3 - 745
Special Tactics / Combat Control	0408011F	282	07.....	Volume 4 - 781
Special Victim Accountability and Investigation	0808736F	82	04.....	Volume 2 - 553

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Specialized Undergraduate Flight Training	0604233F	149	07.....	Volume 3 - 155
Stand In Attack Weapon	0207328F	109	05.....	Volume 2 - 911
Strategic Mission Planning & Execution System (SMPES)	0304100F	238	07.....	Volume 4 - 371
Submunitions	0604604F	94	05.....	Volume 2 - 727
Survivable Airborne Operations Center (SAOC)	0604288F	51	04.....	Volume 2 - 229
Survivable Airborne Operations Center (SAOC)	0604288F	92	05.....	Volume 2 - 701
Sustainment Science and Technology (S&T)	0603199F	18	03.....	Volume 1 - 267
THRESHER	0304109F	239	07.....	Volume 4 - 387
Tactical AIM Missiles	0207161F	182	07.....	Volume 3 - 699
Tactical Air Control Party-Mod	0207444F	201	07.....	Volume 4 - 61
Tactical Data Networks Enterprise	0604281F	90	05.....	Volume 2 - 677
Tactical Deception	0208007F	212	07.....	Volume 4 - 187
Tactical Terminal	0305158F	260	07.....	Volume 4 - 525
Tech Transition Program	0604858F	60	04.....	Volume 2 - 329
Technology Transfer	0604317F	52	04.....	Volume 2 - 237
Test and Evaluation Support	0605807F	128	06.....	Volume 3 - 33
Theater Battle Management (TBM) C4I	0207438F	199	07.....	Volume 4 - 33
Theater Nuclear Weapon Storage & Security System	0305155F	115	05.....	Volume 2 - 965
Theater Nuclear Weapon Storage & Security System	0305155F	259	07.....	Volume 4 - 519

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2027 • RDT&E Program

Program Element Title	Program Element Number	Line #	BA	Page
Threat Simulator Development	0604256F	123	06.....	Volume 3 - 1
Three Dimensional Long-Range Radar (3DELRR)	0207455F	71	04.....	Volume 2 - 453
Training Developments	0804772F	121	05.....	Volume 2 - 1037
U.S. Space Command Research and Development Support	1206415F	85	04.....	Volume 2 - 581
University Affiliated Research Center (UARC) - Tactical Autonomy	0602022F	4	02.....	Volume 1 - 33
University Research Initiatives	0601103F	2	01.....	Volume 1 - 21
VC-25B	0401319F	118	05.....	Volume 2 - 1005
War Reserve Materiel - Ammunition	0208030F	74	04.....	Volume 2 - 483
Weather Service	0305111F	252	07.....	Volume 4 - 471
Wide Area Surveillance	0604445F	151	07.....	Volume 3 - 183
Worldwide Joint Strategic Communications	0101316F	164	07.....	Volume 3 - 503

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RDTE, Air Force												Date: April 2026				
Department of the Air Force TOTAL CIVILIAN PERSONNEL COSTS OP-8B: OP-8 (PB) FY 2027 President's Budget Submission (FY 2025)																
	(\$ in Thousands)											Rates				
	a Begin Strength	b End Strength	c FTEs	d Basic Comp	e Overtime Pay	f Holidays Pay	g Other O.C.1	e + f + g h Total Variable	d + h i Comp O.C.11	i 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	18,702	2,469,409	0	0	0	0	2,469,409	691,094	3,160,503	\$132,040	\$132,040	\$168,993	0.0%	28.0%
D1. US Direct Hire (USDH)	19,925	19,947	18,700	2,469,077	-	-	-	-	2,469,077	691,094	3,160,171	\$132,036	\$132,036	\$168,993	0.0%	28.0%
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	15,369	2,208,121	-	-	-	-	2,208,121	597,150	2,805,271	\$143,674	\$143,674	\$182,528	0.0%	27.0%
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2. Direct Hire Program Foreign Nationals (DHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D3. Total Direct Hire	19,925	19,947	18,700	2,469,077	-	-	-	-	2,469,077	691,094	3,160,171	\$132,036	\$132,036	\$168,993	0.0%	28.0%
D4. Indirect Hire Foreign Nationals (IHFN)	2	2	2	332	-	-	-	-	332	-	332	\$166,000	\$166,000	\$166,000	0.0%	0.0%
Subtotal - Direct Funded (excludes OC 13)	19,927	19,949	18,702	2,469,409	-	-	-	-	2,469,409	691,094	3,160,503	\$132,040	\$132,040	\$168,993	0.0%	28.0%
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	23,293	3,035,211	0	0	0	0	3,035,211	691,094	3,726,305	\$130,306	\$130,306	\$159,975	0.0%	22.8%
T1. US Direct Hire (USDH)	23,932	24,538	23,291	3,034,879	-	-	-	-	3,034,879	691,094	3,725,973	\$130,303	\$130,303	\$159,975	0.0%	22.8%
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	19,960	2,773,923	0	0	0	0	2,773,923	597,150	3,371,073	\$138,974	\$138,974	\$168,891	0.0%	21.5%
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	-	-	-	-	-
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	23,291	3,034,879	-	-	-	-	3,034,879	691,094	3,725,973	\$130,303	\$130,303	\$159,975	0.0%	22.8%
T4. Indirect Hire Foreign Nationals (IHFN)	2	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)	23,934	24,540	23,293	3,035,211	-	-	-	-	3,035,211	691,094	3,726,305	\$130,306	\$130,306	\$159,975	0.0%	22.8%
T5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

RDTE, Air Force												Date: April 2026				
Department of the Air Force TOTAL CIVILIAN PERSONNEL COSTS OP-8B: OP-8 (PB) FY 2027 President's Budget Submission (FY 2026)																
	(\$ 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	i 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)	19,895	17,532	17,450	2,344,600	0	0	0	0	2,344,600	703,278	3,047,878	\$134,361	\$134,361	\$174,663	0.0%	30.0%
D1. US Direct Hire (USDH)	19,893	17,530	17,448	2,344,261	-	-	-	-	2,344,261	703,278	3,047,539	\$134,357	\$134,357	\$174,664	0.0%	30.0%
D1a. Senior Executive Schedule	21	21	21	3,969	-	-	-	-	3,969	1,701	5,670	\$189,000	\$189,000	\$270,000	0.0%	42.9%
D1b. General Schedule	16,616	16,349	16,267	2,263,964	-	-	-	-	2,263,964	668,865	2,932,829	\$139,175	\$139,175	\$180,293	0.0%	29.5%
D1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1d. Wage System	3,256	1,160	1,160	76,328	-	-	-	-	76,328	32,712	109,040	\$65,800	\$65,800	\$94,000	0.0%	42.9%
D1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2. Direct Hire Program Foreign Nationals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D3. Total Direct Hire	19,893	17,530	17,448	2,344,261	-	-	-	-	2,344,261	703,278	3,047,539	\$134,357	\$134,357	\$174,664	0.0%	30.0%
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)	19,895	17,532	17,450	2,344,600	-	-	-	-	2,344,600	703,278	3,047,878	\$134,361	\$134,361	\$174,663	0.0%	30.0%
D5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5c. Voluntary Separation Incentive Pay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5d. Foreign National Separation Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reimbursable Funded Personnel (includes OC 13)	5,082	5,150	5,150	589,590	0	0	0	0	589,590	0	589,590	\$114,483	\$114,483	\$114,483	0.0%	0.0%
R1. US Direct Hire (USDH)	5,082	5,150	5,150	589,590	-	-	-	-	589,590	-	589,590	\$114,483	\$114,483	\$114,483	0.0%	0.0%
R1a. Senior Executive Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1b. General Schedule	5,082	5,150	5,104	585,450	-	-	-	-	585,450	-	585,450	\$114,704	\$114,704	\$114,704	0.0%	0.0%
R1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1d. Wage System	-	-	46	4,140	-	-	-	-	4,140	-	4,140	\$90,000	\$90,000	\$90,000	0.0%	0.0%
R1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R2. Direct Hire Program Foreign Nationals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R3. Total Direct Hire	5,082	5,150	5,150	589,590	-	-	-	-	589,590	-	589,590	\$114,483	\$114,483	\$114,483	0.0%	0.0%
R4. Indirect Hire Foreign Nationals (IHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal - Reimbursable Funded (excludes OC 13)	5,082	5,150	5,150	589,590	-	-	-	-	589,590	-	589,590	\$114,483	\$114,483	\$114,483	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5d. Foreign National Separation Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Personnel (includes OC 13)	24,977	22,682	22,600	2,934,190	0	0	0	0	2,934,190	703,278	3,637,468	\$129,831	\$129,831	\$160,950	0.0%	24.0%
T1. US Direct Hire (USDH)	24,975	22,680	22,598	2,933,851	-	-	-	-	2,933,851	703,278	3,637,129	\$129,828	\$129,828	\$160,949	0.0%	24.0%
T1a. Senior Executive Schedule	21	21	21	3,969	0	0	0	0	3,969	1,701	5,670	\$189,000	\$189,000	\$270,000	0.0%	42.9%
T1b. General Schedule	21,698	21,499	21,371	2,849,414	0	0	0	0	2,849,414	668,865	3,518,279	\$133,331	\$133,331	\$164,629	0.0%	23.5%
T1c. Special Schedule	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1d. Wage System	3,256	1,160	1,206	80,468	0	0	0	0	80,468	32,712	113,180	\$66,723	\$66,723	\$93,847	0.0%	40.7%
T1e. Highly Qualified Experts	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T2. Direct Hire Program Foreign Nationals	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T3. Total Direct Hire	24,975	22,680	22,598	2,933,851	-	-	-	-	2,933,851	703,278	3,637,129	\$129,828	\$129,828	\$160,949	0.0%	24.0%
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)	24,977	22,682	22,600	2,934,190	-	-	-	-	2,934,190	703,278	3,637,468	\$129,831	\$129,831	\$160,950	0.0%	24.0%
T5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5c. Voluntary Separation Incentive Pay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5d. Foreign National Separation Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

RDTE, Air Force												Date: April 2026				
Department of the Air Force TOTAL CIVILIAN PERSONNEL COSTS OP-8B: OP-8 (PB) FY 2027 President's Budget Submission (FY 2027)																
	(\$ 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	Pay	Pay	O.C.11	Variables	O.C.11	O.C.12/13	& Benefits	Comp	Comp	& Benefits	Variables	Benefits
Direct Funded Personnel (includes OC 13)	19,361	16,926	16,926	2,359,931	0	0	0	0	2,359,931	705,757	3,065,688	\$139,426	\$139,426	\$181,123	0.0%	29.9%
D1. US Direct Hire (USDH)	19,359	16,924	16,924	2,359,487	-	-	-	-	2,359,487	705,757	3,065,244	\$139,417	\$139,417	\$181,118	0.0%	29.9%
D1a. Senior Executive Schedule	21	21	21	18,750	-	-	-	-	18,750	4,588	23,338	\$892,857	\$892,857	\$1,111,333	0.0%	24.5%
D1b. General Schedule	16,349	15,787	15,787	2,263,446	-	-	-	-	2,263,446	678,020	2,941,466	\$143,374	\$143,374	\$186,322	0.0%	30.0%
D1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1d. Wage System	2,989	1,116	1,116	77,291	-	-	-	-	77,291	23,149	100,440	\$69,257	\$69,257	\$90,000	0.0%	30.0%
D1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2. Direct Hire Program Foreign Nationals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D3. Total Direct Hire	19,359	16,924	16,924	2,359,487	-	-	-	-	2,359,487	705,757	3,065,244	\$139,417	\$139,417	\$181,118	0.0%	29.9%
D4. Indirect Hire Foreign Nationals (IHFN)	2	2	2	444	-	-	-	-	444	-	444	\$222,000	\$222,000	\$222,000	0.0%	0.0%
Subtotal - Direct Funded (excludes OC 13)	19,361	16,926	16,926	2,359,931	-	-	-	-	2,359,931	705,757	3,065,688	\$139,426	\$139,426	\$181,123	0.0%	29.9%
D5. Other Object Class 13 Benefits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5a. USDH - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5b. DHFN - Benefits for Former Employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5c. Voluntary Separation Incentive Pay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5d. Foreign National Separation Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reimbursable Funded Personnel (includes OC 13)	5,082	5,150	5,150	589,590	0	0	0	0	589,590	0	589,590	\$114,483	\$114,483	\$114,483	0.0%	0.0%
R1. US Direct Hire (USDH)	5,082	5,150	5,150	589,590	-	-	-	-	589,590	-	589,590	\$114,483	\$114,483	\$114,483	0.0%	0.0%
R1a. Senior Executive Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1b. General Schedule	5,082	5,150	5,104	585,450	-	-	-	-	585,450	-	585,450	\$114,704	\$114,704	\$114,704	0.0%	0.0%
R1c. Special Schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R1d. Wage System	-	-	46	4,140	-	-	-	-	4,140	-	4,140	\$90,000	\$90,000	\$90,000	0.0%	0.0%
R1e. Highly Qualified Experts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R2. Direct Hire Program Foreign Nationals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R3. Total Direct Hire	5,082	5,150	5,150	589,590	-	-	-	-	589,590	-	589,590	\$114,483	\$114,483	\$114,483	0.0%	0.0%
R4. Indirect Hire Foreign Nationals (IHFN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal - Reimbursable Funded (excludes OC 13)	5,082	5,150	5,150	589,590	-	-	-	-	589,590	-	589,590	\$114,483	\$114,483	\$114,483	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R5d. Foreign National Separation Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Personnel (includes OC 13)	24,443	22,076	22,076	2,949,521	0	0	0	0	2,949,521	705,757	3,655,278	\$133,608	\$133,608	\$165,577	0.0%	23.9%
T1. US Direct Hire (USDH)	24,441	22,074	22,074	2,949,077	-	-	-	-	2,949,077	705,757	3,654,834	\$133,600	\$133,600	\$165,572	0.0%	23.9%
T1a. Senior Executive Schedule	21	21	21	18,750	0	0	0	0	18,750	4,588	23,338	\$892,857	\$892,857	\$1,111,333	0.0%	24.5%
T1b. General Schedule	21,431	20,937	20,891	2,848,896	0	0	0	0	2,848,896	678,020	3,526,916	\$136,370	\$136,370	\$168,825	0.0%	23.8%
T1c. Special Schedule	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T1d. Wage System	2,989	1,116	1,162	81,431	0	0	0	0	81,431	23,149	104,580	\$70,078	\$70,078	\$90,000	0.0%	28.4%
T1e. Highly Qualified Experts	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T2. Direct Hire Program Foreign Nationals	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
T3. Total Direct Hire	24,441	22,074	22,074	2,949,077	-	-	-	-	2,949,077	705,757	3,654,834	\$133,600	\$133,600	\$165,572	0.0%	23.9%
T4. Indirect Hire Foreign Nationals (IHFN)	2	2	2	444	0	0	0	0	444	0	444	\$222,000	\$222,000	\$222,000	0.0%	0.0%
Subtotal - Total Funded (excludes OC 13)	24,443	22,076	22,076	2,949,521	-	-	-	-	2,949,521	705,757	3,655,278	\$133,608	\$133,608	\$165,577	0.0%	23.9%
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	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0
T5d. Foreign National Separation Liability	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0

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Executive Summary for

RDT&E, Air Force

Table 1: Funding Overview

	FY 2025 (\$K)	FY 2026 (\$K)	FY 2027 (\$K)
Discretionary	\$47,038,107	\$50,289,595	\$73,075,614
Mandatory	\$6,487	\$6,705,560	\$1,091,686
Total	\$47,044,594	\$56,995,155	\$74,167,300

Table 2: Detailed Mandatory Breakout

BLI	Reconciliation Bin Title	FY 2025 (\$K)	FY 2026 (\$K)	FY 2027 (\$K)
0101113F	Air Superiority			\$101,100
0101328F	Nuclear		\$100,000	
0207110F	Air Superiority		\$400,000	
0207133F	Air Superiority		\$82,500	
0207146F	Air Superiority		\$40,000	
0207147F	Air Superiority		\$676,750	
0207253F	Air Superiority		\$90,241	
0207325F	Munitions & Supply Chain		\$200,000	
0207697F	Low-Cost Weapons		\$10,000	
0208201F	Low-Cost Weapons		\$12,000	
0303140F	Low-Cost Weapons	\$ 6,487		
0304784F	Low-Cost Weapons		\$23,000	
0305282F	Low-Cost Weapons		\$311,432	

BLI	Reconciliation Bin Title	FY 2025 (\$K)	FY 2026 (\$K)	FY 2027 (\$K)
0401130F	Air Superiority		\$4,410	
0401218F	Air Superiority		\$43,000	
0408011F	Low-Cost Weapons		\$10,000	
0604033F	Munitions & Supply Chain		\$133,334	
0604041F	Low-Cost Weapons		\$285,000	
0604041F	Munitions			\$51,000
0604200F	Low-Cost Weapons		\$80,000	
0604288F	Nuclear		\$64,500	
0604327F	Munitions & Supply Chain		\$154,000	
0604840F	Air Superiority			\$939,586
0604858F	Low-Cost Weapons		\$296,000	
0604860F	Low-Cost Weapons		\$102,000	
0605238F	Nuclear		\$2,189,000	
0901554F	Cyber Security		\$20,000	
9999999	Indopacom		\$42,393	
9999999	Air Superiority		\$121,000	
9999999	Low-Cost Weapons		\$15,000	
9999999	Missile Defense		\$1,200,000	
Mandatory Total		\$6,487	\$6,705,560	\$1,091,686

MANDATORY FUNDING JUSTIFICATION:

The FY 2027 request for Air Force, Research, Development, Test, and Evaluation includes \$73,075,614 thousand of discretionary and \$1,091,686 thousand of mandatory for a total of \$74,167,300.

Air Superiority:

F-35 Go-to-War Development Funding: The \$650 million accelerates the Joint Program Office go-to-war development efforts.

F-35 Block 4 Full Funding: The \$59 million funds the Block 4 sub-program.

F-35 Flight Science Aircraft 1-6: The \$14 million funds F-35 Flight Science Aircraft 1-6.

F-35 Engine Core Upgrade Program: The \$128.4 million funds F-35 Engine Core Upgrade Program.

F-35 Power Thermal Management Upgrade Development: The \$47 million funds the F-35 Power Thermal Management Upgrade program.

F-35 Digital Core: The \$41.4 million funds F-35 Joint Program Office investments in Digital Core.

B-52 Bomber Mission Employment Trainer: The \$73.3 million provides funds to develop and field the Mission Employment Trainer (MET) for the B-52 bomber. The mandatory MET funds will fully fund the continuation of the development of the WST, CPT and virtualization of the OFPs and leverage forward compatible software to develop the MET FoS.

B-52 Bomber Resilient Operational Capabilities Suite: The \$19.8 million provides funds to develop and field the Resilient Operational Capabilities Suite to provide hybrid satellite communications capability for the B-52 bomber. This fully funds the Air Force's portion of the program's first year of EMD efforts to include design reviews, and test asset hardware buys.

B-52 Bomber: The \$8 million provides funds for the Commercial Engine Replacement Program. These funds fully fund the Development effort in FY 2027.

Munitions:

Munitions Acceleration Council (MAC) Low Cost Cruise Missile Development & Procurement: The \$51 million provides funds for the Air Force to complete development of the Family of Affordable Mass Missiles (FAMM).

The FY 2026 spend plan amount for Air Force, Research, Development, Test, and Evaluation includes \$50,289,595 thousand of discretionary and \$6,705,560 thousand of mandatory (reconciliation) for a total of \$56,995,155.

The FY 2025 spend plan amount for Air Force, Research, Development, Test, and Evaluation includes \$47,038,107 thousand of discretionary and \$6,487 thousand of mandatory (reconciliation) for a total of \$47,044,594.

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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
OSW	- Office of the Secretary of War
PACAF	- Pacific Air Forces
USAF	- United States Air Force
USAF A	- 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 2027 Air Force										Date: April 2026		
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 0603036F I Modular Advanced Missile							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	15.099	0.000	15.099	0.000	0.000	0.000	0.000	0.000	15.099
643036: Armament Demonstration and Validation	0.000	0.000	0.000	15.099	0.000	15.099	0.000	0.000	0.000	0.000	0.000	15.099
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program, BA 4, PE 0603036F, Modular Advanced Missile (MAM) is not a new start.

The Modular Advanced Missile Program Element provides linkage between Research & Development and fielding of weapons capabilities. It will analyze, develop, mature, and demonstrate new or emerging armament technologies, processes, interfaces, mission planning, special test equipment, and resources.

This program invests in analytical, data management, digital environments, networks, facilities, and security infrastructure upgrades supporting development of this program's capabilities, while leveraging the Department of War (DoW) and the Department of the Air Force (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 DoW, 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 program element included all necessary 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, and 0605898F.

Project was previously funded in PE 0207325F, Joint Air-to-Surface Standoff Missile (JASSM), Project 675356, JASSM Extended Range (JASSM-ER) in FY2026 and prior.

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 2027 Air Force				Date: April 2026			
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 0603036F I Modular Advanced Missile					
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		0.000	0.000	0.000	0.000	0.000	
Current President's Budget		0.000	0.000	15.099	0.000	15.099	
Total Adjustments		0.000	0.000	15.099	0.000	15.099	
• 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	15.099	0.000	15.099	
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: Breakthrough Armament Capability Analysis					-	0.000	15.099
Description: Conduct technology maturation, concept experimentation, and risk reduction activities on emerging and enabling long range weapon technologies to inform future acquisition and production decisions for the armament portfolio, informed by internal and external stakeholders.							
FY 2026 Plans: N/A							
FY 2027 Plans: For Fiscal Year 2027, program efforts will specifically focus on a comprehensive Technology Readiness Level (TRL) assessment of candidate future missile architectures and capabilities. This includes executing concept development tradeoffs across subsystems to optimize the balance of range, survivability, and lethality against projected threat environments.							
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to identified need for analysis to evaluate technology maturity level.							
Accomplishments/Planned Programs Subtotals					-	0.000	15.099
D. Other Program Funding Summary (\$ in Millions)							
N/A							
Remarks							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force / BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0603036F / Modular Advanced Missile	
E. Acquisition Strategy Breakthrough Armament Capability Analysis efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive contracts and/or other obligating documentation considered most appropriate by the obligating and performing agencies involved.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603036F / Modular Advanced Missile						Project (Number/Name) 643036 / Armament Demonstration and Validation			
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Breakthrough Armament Capability Analysis	TBD	TBD : TBD	-	-		-		15.099		-		15.099	Continuing	Continuing	-
Subtotal			-	-		-		15.099		-		15.099	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		15.099		-		15.099	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026																			
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0603036F / Modular Advanced Missile										Project (Number/Name) 643036 / Armament Demonstration and Validation									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Armament Demonstration and Validation																												
Breakthrough Armament Capability Analysis																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603036F / Modular Advanced Missile	Project (Number/Name) 643036 / Armament Demonstration and Validation

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Armament Demonstration and Validation				
Breakthrough Armament Capability Analysis	4	2026	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0603260F / <i>Intelligence Advanced Development</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	3.820	3.901	4.012	0.000	4.012	4.156	4.232	4.313	4.401	Continuing	Continuing
64536A: <i>INTELLIGENCE EXPLOITATION TOOLS (IET)</i>	0.000	2.500	2.553	4.012	0.000	4.012	4.156	4.232	4.313	4.401	Continuing	Continuing
64537A: <i>INTELLIGENCE ANALYSIS CAPABILITIES (IAC)</i>	0.000	1.320	1.348	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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 2027, IAD improves the performance of warfighters and intel analysts by providing enhanced, on-time information through streamlined data analysis of new and existing sources, thereby reducing the operational footprint.

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 included all necessary 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, and 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 2027 Air Force				Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	3.820	3.901	0.000	0.000	0.000
Current President's Budget	3.820	3.901	4.012	0.000	4.012
Total Adjustments	0.000	0.000	4.012	0.000	4.012
• 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	4.012	0.000	4.012
Change Summary Explanation					
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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)			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
64536A: INTELLIGENCE EXPLOITATION TOOLS (IET)	0.000	2.500	2.553	4.012	0.000	4.012	4.156	4.232	4.313	4.401	Continuing	Continuing
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 2025	FY 2026	FY 2027
Title: Intelligence Exploitation Tools (IET)	2.500	2.553	4.012
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 2026 Plans: - Completes 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 - Completes 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 - Continues 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 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Completes Over-the-Horizon (OTH) tracks of adversary air/land/maritime assets to DAF Family of Systems aircraft <i>FY 2027 Plans:</i> In FY 2027, PE 0603260F (Intelligence Advanced Development), Project 64537A, (Intelligence Analysis Capabilities (IAC)) efforts were transferred to PE 0603260F (Intelligence Advanced Development), Project 64536A, (Intelligence Exploitation Tools (IET)) in order to streamline the funding. Historically the two projects were required to delineate efforts, however, as time progressed and funding for IAD has been reduced the efforts now fall into one project (IET). - Will complete threat airborne radar supporting predictive analysis, hardware-in-the-loop testing, and EW programmability - Will complete unified targeting and operational predictive intelligence application to predict adversarial threats - Will continue cloud enablement of electronic warfare integrated reprogramming database to improve dissemination of capability <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> FY 2027 funding increase of \$1.378M is due to transfer of all Intelligence Analysis Capabilities (IAC) Project 64537A funds into Intelligence Exploitation Tools (IET) Project 64536A and minor inflation adjustments.			
Accomplishments/Planned Programs Subtotals		2.500	2.553
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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
3600 / 4						PE 0603260F / Intelligence Advanced Development				64536A / INTELLIGENCE EXPLOITATION TOOLS (IET)					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.400	Dec 2024	2.449	Dec 2025	3.805	Dec 2026	-		3.805	Continuing	Continuing	-
Subtotal			-	2.400		2.449		3.805		-		3.805	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.100	Nov 2024	0.104	Nov 2025	0.207	Nov 2026	-		0.207	Continuing	Continuing	-
Subtotal			-	0.100		0.104		0.207		-		0.207	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.500		2.553		4.012		-		4.012	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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>

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Threat Airborne Radar																												
Over-the-Horizon (OTH) Tracking																												
Targeting and Predictive Intelligence																												
Cloud Enablement of Electronic Warfare Reprogramming Database																												
FY26 IET Development, Evaluation & Prototype Release																												
FY27 IET Development, Evaluation & Prototype Release																												
FY28 IET Development, Evaluation & Prototype Release																												
FY29 IET Development, Evaluation & Prototype Release																												
FY30 IET Development, Evaluation & Prototype Release																												
FY31 IET Development, Evaluation & Prototype Release																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
IET				
Audio/video exploitation enhancements	1	2025	4	2026
Air traffic behavior prediction	1	2025	4	2026
Threat Airborne Radar	1	2025	4	2027
Over-the-Horizon (OTH) Tracking	1	2025	4	2026
Targeting and Predictive Intelligence	1	2027	4	2027
Cloud Enablement of Electronic Warfare Reprogramming Database	1	2027	4	2028
FY26 IET Development, Evaluation & Prototype Release	1	2026	1	2028
FY27 IET Development, Evaluation & Prototype Release	1	2027	4	2029
FY28 IET Development, Evaluation & Prototype Release	1	2028	4	2030
FY29 IET Development, Evaluation & Prototype Release	1	2029	4	2031
FY30 IET Development, Evaluation & Prototype Release	1	2030	4	2031
FY31 IET Development, Evaluation & Prototype Release	1	2031	4	2031

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603260F / Intelligence Advanced Deve lopment				Project (Number/Name) 64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
64537A: INTELLIGENCE ANALYSIS CAPABILITIES (IAC)	0.000	1.320	1.348	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
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 2025	FY 2026	FY 2027
Title: Intelligence Analysis Capabilities (IAC) Development 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 2026 Plans: - Continues a unified targeting and operational predictive intelligence application to predict adversarial threats - Initiates cloud enablement of electronic warfare integrated reprogramming database (EWIRDB) to improve dissemination of capability FY 2027 Plans: In FY 2027, PE 0603260F (Intelligence Advanced Development), Project 64537A, (Intelligence Analysis Capabilities (IAC)) efforts were transferred to PE 0603260F (Intelligence Advanced Development), Project 64536A, (Intelligence Exploitation Tools (IET)) in order to streamline the funding. Historically the two projects were required to delineate efforts, however, as time progressed and funding for IAD has been reduced the efforts now fall into one project (IET). FY 2026 to FY 2027 Increase/Decrease Statement:	1.320	1.348	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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)		FY 2025	FY 2026
FY 2027 Funding decrease is due to transfer of all Intelligence Analysis Capabilities (IAC) (Project 64537A) projects/funds into Intelligence Exploitation Tools (IET) (Project 64536A).			
Accomplishments/Planned Programs Subtotals		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 2027 Air Force													Date: April 2026		
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>					

Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.275	Dec 2024	1.300	Dec 2025	0.000		0.000		0.000	Continuing	Continuing	-
Subtotal			-	1.275		1.300		0.000		0.000		0.000	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.045	Nov 2024	0.048	Nov 2025	0.000		0.000		0.000	Continuing	Continuing	-
Subtotal			-	0.045		0.048		0.000		0.000		0.000	Continuing	Continuing	N/A

			Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.320	1.348	0.000	0.000	0.000	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0603260F / Intelligence Advanced Development					64537A / INTELLIGENCE ANALYSIS CAPABILITIES (IAC)			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
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 2027 Air Force			Date: April 2026
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				
Targeting and Predictive Intelligence	1	2025	4	2026
Cloud Enablement of Electronic Warfare Reprogramming Database	1	2026	4	2026
FY26 IAC Development, Evaluation & Prototype Release	1	2026	4	2026

Note
Note: The total of all Intelligence Analysis Capabilities (IAC) (Project 64537A) projects/funds into Intelligence Exploitation Tools (IET) (Project 64536A). On going effort will be reflected in IET.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0603677F I In-Transit Visibility (ITV) Modernization							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.000
646683: Advanced Component Development and Prototypes (ACD&P)	0.000	0.000	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The mission of In-Transit Visibility (ITV) is to continuously improve and provide accurate, auditable, secure, and resilient end-to-end data for all DoW materiel moving through the Defense Transportation System (DTS). Modernizing ITV will significantly improve the ability of Combatant Commands (CCMDs) to forecast the arrival of materiel in their Area of Responsibility (AOR), leading to more accurate timelines for power projection planning. Enhanced visibility also supports dynamic optimization of routing, improved shipment security, informed stock posturing, and other advanced supply chain analytic 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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	10.000	0.000	0.000	0.000
Total Adjustments	0.000	10.000	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	10.000			
• 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

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 646683: *Advanced Component Development and Prototypes (ACD&P)*

Congressional Add: *In-Transit Visibility (ITV) Modernization*

FY 2025	FY 2026
0.000	10.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026	
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 0603677F I In-Transit Visibility (ITV) Modernization	
Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2025	FY 2026
Congressional Add Subtotals for Project: 646683		0.000	10.000
Congressional Add Totals for all Projects		0.000	10.000
Change Summary Explanation The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
Congressional Add: In-Transit Visibility (ITV) Modernization		0.000	10.000
FY 2025 Accomplishments: Program Funded in FY 2026 as a Congressional Add.			
FY 2026 Plans: The acquisition strategy is a three-phased approach.			
Phase One, Requirements Gathering and Analysis: This initial phase is focused on translating the broad challenges across the Joint Deployment and Distribution Enterprise (JDDE) into specific, actionable, and measurable technical and operational requirements. The goal is to establish a clear roadmap for development and to ensure alignment amongst the stakeholders' needs and the proposed commercial solution. A worldwide ITV workshop conducted for 60 key stakeholders from the Services and DLA, in addition to members across the JDDE. Through facilitated guided discussions, develop tangible actionable plans and tasks that will lead to the modernized ITV system that will be a comprehensive ecosystem of Remote Monitoring Devices (RMDs), including sensors, tags, and devices, tailored to specific use cases and operating environments. Intended outcomes: Baseline ITV Terminology, Explore Necessary Operational Elements and Capabilities, Define Technology Features and/or Configurations, Draft Specific Tagging Protocols and Process, Consider Future Implementation Planning Implications.			
Phase Two, ITV Prototype and Testing. Using the outputs from phase one, this phase focuses on developing and validating the core In-Transit Visibility (ITV) platform. The primary objective is to demonstrate the ability to ingest, fuse, and visualize data from a variety of sources to create a Common Operating Picture (COP). It will consist of three to five Commercial-Off-The-Shelf (COTS) and Government-Off-The-Shelf (GOTS) solutions, including the Naval Autonomous Data Collection System (NADACS) and the Marine Corps Platform Integration Center (MCPIC). These experimentation events will involve multi-modal, shipments from the Continental United States (CONUS) to various outside the Continental United States (OCONUS).			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026	
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 0603677F I <i>In-Transit Visibility (ITV) Modernization</i>	
C. Accomplishments/Planned Programs (\$ in Millions) Phase Three, Full-Spectrum Asset Visibility (AV), Warehousing and Advanced Analytics. Building on the ITV prototype, this phase expands the solution's scope to include visibility of assets at rest and integrates advanced analytical capabilities. The goal is to create a single, unified platform for managing the entire logistics lifecycle, from the warehouse shelf to the tactical edge.		FY 2025	FY 2026
Congressional Adds Subtotals		0.000	10.000
D. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
E. Acquisition Strategy In-Transit Visibility (ITV) Modernization program will be leveraging the Commercial Solutions Opening (CSO) acquisition process.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603677F / <i>In-Transit Visibility (ITV) Modernization</i>						Project (Number/Name) 646683 / <i>Advanced Component Development and Prototypes (ACD&P)</i>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Pre-Acquisition Support	Various	TBD : Scott AFB, IL	-	-		0.100	May 2026	-		-		-	0.000	0.100	-
Subtotal			-	-		0.100		-		-		-	0.000	0.100	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ITV Prototype and Testing	Various	Not specified. : TBD	-	-		6.000	Dec 2026	-		-		-	0.000	6.000	-
Full-Spectrum Asset Visibility (AV), Warehousing and Advanced Analytics	Various	Not specified. : TBD	-	-		3.900	May 2027	-		-		-	0.000	3.900	-
Subtotal			-	-		9.900		-		-		-	0.000	9.900	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		10.000		-		-		-	0.000	10.000	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0603677F / In-Transit Visibility (ITV) Modernization				Project (Number/Name) 646683 / Advanced Component Development and Prototypes (ACD&P)			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Activities																												
Pre-Acquisition Activities																												
Prototype and Testing																												
ITV Prototype and Testing																												
Full-Spectrum Asset Visibility (AV), Warehousing and Advanced Analytics																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603677F / In-Transit Visibility (ITV) Modernization	Project (Number/Name) 646683 / Advanced Component Development and Prototypes (ACD&P)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Pre-Acquisition Activities				
Pre-Acquisition Activities	3	2026	4	2026
Prototype and Testing				
ITV Prototype and Testing	4	2026	1	2027
Full-Spectrum Asset Visibility (AV), Warehousing and Advanced Analytics	1	2027	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	16.790	24.860	25.888	0.000	25.888	25.823	26.319	26.823	27.367	Continuing	Continuing
642597: <i>Noncooperative Identification Subsystems</i>	0.000	14.866	21.995	22.942	0.000	22.942	22.887	23.327	23.772	24.254	Continuing	Continuing
642599: <i>Cooperative Identification Techniques</i>	0.000	0.081	0.084	0.087	0.000	0.087	0.087	0.088	0.091	0.093	Continuing	Continuing
643420: <i>Combat ID Database Development</i>	0.000	1.843	2.781	2.859	0.000	2.859	2.849	2.904	2.960	3.020	Continuing	Continuing

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 Program 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 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 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 2027 Air Force			Date: April 2026			
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 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.						
To manage, execute, and deliver combat identification capabilities, this program element may receive additional approval from customer (Air Combat Command - ACC) to cover expenses covering: civilian pay, facility operation/maintenance, travel, supplies, IT hardware, IT software and support, 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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		16.790	25.172	0.000	0.000	0.000
Current President's Budget		16.790	24.860	25.888	0.000	25.888
Total Adjustments		0.000	-0.312	25.888	0.000	25.888
• 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	-0.312			
• Other Adjustments		0.000	0.000	25.888	0.000	25.888
Change Summary Explanation						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, and explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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>			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
642597: <i>Noncooperative Identification Subsystems</i>	0.000	14.866	21.995	22.942	0.000	22.942	22.887	23.327	23.772	24.254	Continuing	Continuing
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 for homeland defense. 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 2027 Air Force		Date: April 2026		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology	Project (Number/Name) 642597 / Noncooperative Identification Subsystems		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Studies 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 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 2027 Plans: -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 2026 to FY 2027 Increase/Decrease Statement: FY 2027 decreased compared to FY 2026 by \$0.903 million due to late awarding in FY26 of previous year study (FY25).		0.840	3.103	2.200
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		7.445	9.592	11.527

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology	Project (Number/Name) 642597 / Noncooperative Identification Subsystems		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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 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. -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 2027 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 F-15. -Continue expansion of 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 planning for JMAC integration efforts on Air Force Command and Control (C2) Platforms. -Continue 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 2026 to FY 2027 Increase/Decrease Statement: FY 2027 increased compared to FY 2026 by \$1.935 million to account for cost growth associated increasing software development costs and software integration onto actual platforms.				
Title: Ground Target Identification		6.581	9.300	9.215
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				

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology		Project (Number/Name) 642597 / Noncooperative Identification Subsystems	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
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, 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, 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, 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 2026 Plans: -Continue algorithm development for efforts toward identification of enemy targets in an actively denied ground environment (camouflage, concealment, denial and decoy conditions). -Continue bistatic SAR effort with Phase 3 to demonstrate integrated capabilities. -Continue integration of 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.					
FY 2027 Plans: -Continue algorithm development for efforts toward identification of enemy targets in an actively denied ground environment (camouflage, concealment, denial and decoy conditions). -Complete bistatic SAR effort with demonstrated software integration planning for planned and potential platforms. -Continue integration of weapon integrated CID into program of record with initial planning for algorithm 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.					
FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 decreases compared to FY 2026 by \$0.085 million due completion of a major software integration onto platforms.					
Accomplishments/Planned Programs Subtotals			14.866	21.995	22.942

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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>
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	6.175	Dec 2024	6.692	Dec 2025	7.012	Jan 2027	-		7.012	Continuing	Continuing	-
Air Target Identification (ATID) - Air Platform (F16/F15/5th Gen) JMAC Integration	C/CPFF	Multiple : Various	-	0.870	Jan 2025	2.500	Apr 2026	4.100	Feb 2027	-		4.100	Continuing	Continuing	-
Air Target Identification (ATID) - Study 1	C/CPFF	Not specified. : TBD	-	0.600	Nov 2024	1.103	Nov 2025	1.100	Nov 2026	-		1.100	Continuing	Continuing	-
Air Target Identification (ATID) - Study 2	C/CPFF	Not specified. : TBD	-	0.000	Nov 2024	0.000	Nov 2025	0.000		-		0.000	Continuing	Continuing	-
Ground Target Identification (GTID) - ID Algorithm / JMAC Features	C/CPFF	Various : Various	-	1.656	Dec 2024	2.500	Dec 2025	3.700	Jan 2027	-		3.700	Continuing	Continuing	-
Ground Target Identification (GTID) - Air to Ground Platform (Aircraft/Weapons/ Unmanned) Integration	C/CPAF	Multiple : Various	-	4.925	Mar 2025	5.400	Apr 2026	2.800	Dec 2026	-		2.800	Continuing	Continuing	-
Ground Target Identification (GTID) - Multi-Sensor Fusion	C/CPAF	Not specified. : TBD	-	-		1.200	Apr 2026	2.300	Apr 2027	-		2.300	Continuing	Continuing	-
Ground Target Identification (GTID) - Study 1	C/CPFF	Not specified. : TBD	-	0.240	Mar 2025	1.000	Mar 2026	1.100	Mar 2027	-		1.100	Continuing	Continuing	-
Ground Target Identification (GTID) - Study 2	C/CPFF	Not specified. : TBD	-	0.000	Apr 2025	0.800	Apr 2026	0.000		-		0.000	Continuing	Continuing	-
Subtotal			-	14.466		21.195		22.112		-		22.112	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology						Project (Number/Name) 642597 / Noncooperative Identification Subsystems			
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.400		0.800	Apr 2026	0.830	Apr 2027	-		0.830	Continuing	Continuing	0.000
Management Services	C/CPFF	TBD : TBD	-	-		-		-		-		-	0.000	0.000	-
Subtotal			-	0.400		0.800		0.830		-		0.830	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	14.866		21.995		22.942		-		22.942	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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>Air Target Identification</i>																												
ATID Algorithm / JMAC Development																												
F-16 JMAC Integration																												
F-15 JMAC Integration																												
5th Gen JMAC Integration																												
<i>Ground Target Identification</i>																												
GTID Algorithm																												
GTID Integration - Bistatic Next Gen Platform																												
GTID Integration - Weapons																												
GTID Algorithm Multi Sensor Fusion																												
<i>Studies</i>																												
ATID Study - JMAC AFSIM Extension																												
GTID Study - Bistatic SAR Simulation																												
ATID Study																												
GTID Study																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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>Air Target Identification</i>				
ATID Algorithm / JMAC Development	1	2025	3	2030
F-16 JMAC Integration	1	2025	2	2027
F-15 JMAC Integration	1	2025	3	2028
5th Gen JMAC Integration	2	2026	2	2029
<i>Ground Target Identification</i>				
GTID Algorithm	1	2025	4	2030
GTID Integration - Bistatic Next Gen Platform	1	2025	4	2026
GTID Integration - Weapons	1	2026	4	2028
GTID Algorithm Multi Sensor Fusion	3	2026	3	2029
<i>Studies</i>				
ATID Study - JMAC AFSIM Extension	1	2025	4	2025
GTID Study - Bistatic SAR Simulation	1	2025	4	2025
ATID Study	1	2026	4	2026
GTID Study	3	2026	2	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology				Project (Number/Name) 642599 / Cooperative Identification Techniques			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
642599: Cooperative Identification Techniques	0.000	0.081	0.084	0.087	0.000	0.087	0.087	0.088	0.091	0.093	Continuing	Continuing
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 Program. Funding for initial studies related on the next generation IFF (potentially labeled Mode 6) began in FY 2023.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2025	FY 2026	FY 2027	
Title: Non-Traditional Cooperative / Cooperative Follow-on System									0.081	0.084	0.087	
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 2026 Plans: - Continue studies for identifying technologies with potential for non-traditional cooperative ID												
FY 2027 Plans: - Continue studies for identifying technologies with potential for non-traditional cooperative ID												
FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 increase compared to FY 2026 \$0.003 million for yearly increase in inflation.												
Accomplishments/Planned Programs Subtotals									0.081	0.084	0.087	
C. Other Program Funding Summary (\$ in Millions)												
N/A												
Remarks												

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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>
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.081		0.084		0.087		-		0.087	Continuing	Continuing	-
Subtotal			-	0.081		0.084		0.087		-		0.087	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.081		0.084		0.087		-		0.087	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0603742F / Combat Identification Technology					642599 / Cooperative Identification Techniques			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Studies																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	4	2025	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
643420: Combat ID Database Development	0.000	1.843	2.781	2.859	0.000	2.859	2.849	2.904	2.960	3.020	Continuing	Continuing
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.

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

	FY 2025	FY 2026	FY 2027
Title: Database Development	1.843	2.781	2.859
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 2026 Plans: -Identify future data collection needs to support future Air Force platform requirements; include as part of the former development efforts. -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.			
FY 2027 Plans: -Continue identifying future data collection needs to support future Air Force platform requirements; include as part of the former development efforts. -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.			
FY 2026 to FY 2027 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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)	FY 2025	FY 2026	FY 2027
FY 2027 increased compared to FY 2026 by \$0.078 millions due to yearly cost of inflation increase.			
Accomplishments/Planned Programs Subtotals	1.843	2.781	2.859

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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.990		1.759		1.759		-		1.759	Continuing	Continuing	-
Database Development	MIPR	NASIC : WPAFB, OH	-	0.853		1.022		1.100		-		1.100	Continuing	Continuing	-
Subtotal			-	1.843		2.781		2.859		-		2.859	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.843		2.781		2.859		-		2.859	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026							
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0603742F / Combat Identification Technology								Project (Number/Name) 643420 / Combat ID Database Development			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Feature Development																												
Air to Air Feature Development																												
F15 JMPS Demo																												
Rapid Reprogramming																												
Combat ID Database Development																												
Air to Ground Database Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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 Feature Development				
Air to Air Feature Development	2	2026	3	2028
F15 JMPS Demo	1	2025	2	2026
Rapid Reprogramming	3	2025	2	2029
Combat ID Database Development				
Air to Ground Database Development	3	2025	2	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	2.214	4.532	2.320	0.000	2.320	2.515	2.618	2.730	2.767	0.000	19.696
64NATO: <i>Nato Coop R&D</i>	0.000	2.214	4.532	2.320	0.000	2.320	2.515	2.618	2.730	2.767	0.000	19.696
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 research and development (R&D) efforts, accelerating the availability of defense systems, and promoting the United States of America 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 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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	2.298	4.595	0.000	0.000	0.000
Current President's Budget	2.214	4.532	2.320	0.000	2.320
Total Adjustments	-0.084	-0.063	2.320	0.000	2.320
• 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	-0.084	-0.063			
• Other Adjustments	0.000	0.000	2.320	0.000	2.320

Change Summary Explanation

The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force								Date: April 2026			
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							
C. Accomplishments/Planned Programs (\$ in Millions)								FY 2025	FY 2026	FY 2027	
Title: International Cooperative Research and Development								2.214	4.532	2.320	
Description: Supports bi- and multi-lateral international agreements that meet the Department of the Air Force Research, Development, Test, and Evaluation objectives and goals. Each of the projects receiving NATO Research and Development (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 2026 Plans: Continue FY 2025 projects and initiate new FY 2026 International Cooperative Research and Development (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, include cooperation with: Australia, France, Germany, India, Israel, Italy, Japan, Netherlands, Singapore, Sweden, and the United Kingdom.											
FY 2027 Plans: Continue FY2026 activities and initiate FY 2027 International Cooperative Research and Development (ICR&D) projects focused on: quantum, photonic; electromagnetic technology; space system performance; materials for extreme environments; collaborative combat aircraft; secure and resilient tactical communications; weapons effects; propulsion and power; satellite continuity; corrosion prevention; and hypersonic weapons. Bilateral and multilateral ICR&D cooperative agreements, in the above areas, are with the following countries: Australia, Canada, Denmark, Israel, Italy, Japan, Netherlands, Singapore, Sweden, and the United Kingdom.											
FY 2026 to FY 2027 Increase/Decrease Statement: Funding was decreased \$2.275 between FY 2026 and FY 2027 is due to under execution.											
Accomplishments/Planned Programs Subtotals								2.214	4.532	2.320	
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• RDTE 04 0603790F: NATO Research and Development	0.000	0.000	-	-	-	-	-	-	-	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026	
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 0603790F / NATO Research and Development						
D. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2027</u>	<u>FY 2027</u>	<u>FY 2027</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Base</u>	<u>OOB</u>	<u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks											
E. Acquisition Strategy											
A principal goal of the NATO Cooperative Research and Development (R&D) program is to effectively utilize the resources invested by the United States of America (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 International Cooperative Research and Development (ICR&D) agreements and helps to (a) leverage Department of the Air Force (DAF) and allied resources through cost sharing and economies of scale; (b) exploit the best 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 cooperative RDT&E efforts endorsed and funded by the proponent. 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.914	Jan 2025	2.232	Jan 2026	1.160		-		1.160	Continuing	Continuing	-
Subtotal			-	0.914		2.232		1.160		-		1.160	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.300	Jan 2025	2.300	Jan 2026	1.160		-		1.160	Continuing	Continuing	-
Subtotal			-	1.300		2.300		1.160		-		1.160	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.214		4.532		2.320		-		2.320	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Projects - ICR&D Project - approval, agreement development, research and development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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 2027 Projects - ICR&D Project - approval, agreement development, research and development	4	2025	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	106.040	117.120	72.112	0.000	72.112	136.788	125.652	127.742	130.327	Continuing	Continuing
641020: ICBM Guidance Applications	0.000	26.584	25.422	28.435	0.000	28.435	45.465	32.651	36.845	37.591	Continuing	Continuing
641022: ICBM Reentry Vehicle Applications	0.000	71.926	71.997	22.219	0.000	22.219	52.629	58.771	58.416	59.599	Continuing	Continuing
641024: ICBM Command & Control (C2) Applications	0.000	4.773	10.563	19.290	0.000	19.290	10.037	10.028	8.017	8.178	Continuing	Continuing
644209: Long Range Planning (LRP)	0.000	2.757	9.138	2.168	0.000	2.168	28.657	24.202	24.464	24.959	Continuing	Continuing

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.

This program element included all necessary 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, and 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 2027 Air Force	Date: April 2026

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 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>

B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	125.561	90.096	0.000	0.000	0.000
Current President's Budget	106.040	117.120	72.112	0.000	72.112
Total Adjustments	-19.521	27.024	72.112	0.000	72.112
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	28.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-14.999	0.000			
• SBIR/STTR Transfer	-4.522	-0.976			
• Other Adjustments	0.000	0.000	72.112	0.000	72.112

Change Summary Explanation

FY2025 adjustments for -\$14.999 million Below Threshold Reprogramming for UON ERAM and -\$4.522 million for Small Business Innovative Research
FY2026 adjustment for Congressional Add for \$28 million for commercial capability to optimization military systems and -.976 million for Sec 8151 for SBIR/STTR
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
641020: ICBM Guidance Applications	0.000	26.584	25.422	28.435	0.000	28.435	45.465	32.651	36.845	37.591	Continuing	Continuing
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 2025 0M was expended for civilian pay expenses in this program element, and in FY 2026 0M is forecasted for civilian pay expenses in this program element.

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

	FY 2025	FY 2026	FY 2027
Title: Guidance Applications Program	26.584	25.422	28.435
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 2026 Plans:			
•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 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 2027 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force							Date: April 2026				
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>				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2025	FY 2026	FY 2027		
•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. •Continue radiation-hardened advanced microelectronics to ensure availability of electronics that can provide state-of-the-art performance and survive strategic radiation environments. •Begin GNC&PNT efforts to identify ways to determine what GPS denied environments are for future ICBMs and potential threats to current GPS along with developing external sources of information other than GPS to determine position <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding increased due to EFT 3 requirement ramp up of activity											
Accomplishments/Planned Programs Subtotals							26.584	25.422	28.435		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• RDTE 05 PE 0605238F: <i>Ground Based Strategic Deterrent EMD</i>	2,011.024	4,147.563	4,491.775	-	4,491.775	4,629.292	4,295.490	4,662.770	4,248.917	Continuing	Continuing
Remarks											
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 2027 Air Force												Date: April 2026			
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>					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Dec 2026	-		2.000	Continuing	Continuing	-
GAP Micro-Electronic Module System, Advanced Fuzing	Various	SNL : Various	-	5.100	Nov 2024	2.000	Nov 2025	-		-		-	0.000	7.100	-
GAP Revolutionary Radar	Various	SNL : Various	-	8.000	Oct 2024	5.062	Nov 2025	-		-		-	0.000	13.062	-
GAP Radiation-Hardened Advanced Microelectronics	Various	MDA : Various	-	1.734	Apr 2025	6.000	Dec 2025	2.012	Dec 2026	-		2.012	Continuing	Continuing	-
GAP Emerging Strategic Instrument Technology (Sparrow)	Various	Various : Various	-	0.750	Nov 2024	-		-		-		-	0.000	0.750	-
GAP ICBM Digitalization integration	Various	Various : Various	-	4.034	Mar 2025	2.000	Oct 2025	-		-		-	0.000	6.034	-
GAP Plasma Experiment (PEGASYS)	Various	Various : Various	-	2.965	Jan 2025	-		-		-		-	0.000	2.965	-
GAP EFT 3	Various	Various : Various	-	-		8.360	Jan 2026	24.423	Dec 2026	-		24.423	Continuing	Continuing	-
GAP AFGSC Modernization and Enhancement of Mission Capabilities	Various	Various : Various	-	4.001	Sep 2025	-		-		-		-	0.000	4.001	-
Subtotal			-	26.584		25.422		28.435		-		28.435	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	26.584		25.422		28.435		-		28.435	Continuing	Continuing	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 2027 Air Force			Date: April 2026		
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>

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 (HARPE)																												
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 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0603851F / <i>Intercontinental Ballistic Missile - Dem/Val</i>	Project (Number/Name) 641020 / <i>ICBM Guidance Applications</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
GAP				
GAP GNC&PNT	2	2026	4	2031
GAP Micro-Electronic Module System, Advanced Fuzing	1	2025	4	2030
GAP Revolutionary Radar (HARPE)	2	2025	4	2030
GAP Radiation-Hardened Advanced microelectronics	1	2025	4	2031
GAP Emerging Strategic Instrument Technology (Sparrow)	3	2025	3	2025
GAP ICBM Digitalization Integration	2	2025	3	2025
GAP Plasma Experiment (PEGASYS)	3	2025	4	2025
GAP EFT 3	2	2026	1	2029
GAP AFGSC Modernization and Enhancement of Mission Capabilities	4	2025	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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>			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
641022: <i>ICBM Reentry Vehicle Applications</i>	0.000	71.926	71.997	22.219	0.000	22.219	52.629	58.771	58.416	59.599	Continuing	Continuing
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 2025 OM was expended for civilian pay expenses in this program element, and in FY 2026 OM is forecasted for civilian pay expenses in this program element.

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

	FY 2025	FY 2026	FY 2027
Title: Reentry Vehicle Applications Program	71.926	71.997	22.219
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 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 IRIS study to evaluate AI and characterization.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 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. FY 2027 Plans: •Finalize 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 joint DoW/DoE test flight assembly (CORVUS) and development of telemetric equipment collecting/transmitting various component performance test data throughout launch, flight, and reentry FY 2026 to FY 2027 Increase/Decrease Statement: Decrease of funding due to funding tech adjustments for higher priorities in Command and Control Applications Program (C2AP)			
Accomplishments/Planned Programs Subtotals		71.926	71.997
		22.219	

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026
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>	

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

<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOO</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDTE 05 0605238F: <i>Ground Based Strategic Deterrent EMD</i>	2,011.024	4,147.563	4,491.775	-	4,491.775	4,629.292	4,295.490	4,662.770	4,248.917	Continuing	Continuing
• RDTE 07 0101328F: <i>ICBM Reentry Vehicles</i>	392.423	259.605	587.184	-	587.184	608.176	503.536	498.733	508.708	Continuing	Continuing

Remarks

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 2027 Air Force												Date: April 2026			
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>			
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.381	Nov 2024	2.500	Feb 2026	3.030	Nov 2026	-		3.030	Continuing	Continuing	-
RVAP Engineering Support	C/FP	JHU/APL : Various	-	4.013	May 2025	2.500	Feb 2026	-		-		-	0.000	6.513	-
Subtotal			-	5.394		5.000		3.030		-		3.030	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		-		-	0.000	0.850	-
RVAP Terminal Tracking and Scoring	Various	Various : Various	-	0.518	Jul 2025	-		-		-		-	0.000	0.518	-
RVAP IRIS	Various	Various : Various	-	2.030	May 2025	-		-		-		-	0.000	2.030	-
RVAP Thermal Protection Systems	Various	Various : Various	-	1.230	Feb 2025	1.000	Nov 2025	-		-		-	0.000	2.230	-
RVAP CM Highrider	Various	Various : Various	-	1.000	May 2025	3.000	Feb 2026	-		-		-	0.000	4.000	-
RVAP EFT 2	Various	Various : Various	-	11.175	Nov 2024	22.702	Nov 2025	15.441	Nov 2026	-		15.441	Continuing	Continuing	-
RVAP Future System Demonstrator	MIPR	Various : Various	-	11.695	Oct 2024	8.000	Dec 2025	3.373	Nov 2026	-		3.373	Continuing	Continuing	-
RVAP Path Length Module Inertial Measuring Unit Development	Various	Various : Various	-	0.384	Jul 2025	2.866	Jan 2026	-		-		-	0.000	3.250	-
RVAP Radiation - Hardened Advanced Microelectronics	Various	Various : Various	-	1.514	Jan 2025	-		-		-		-	0.000	1.514	-
RVAP SBIR III - Common Dispenser	Various	Various : Various	-	0.224	Jun 2025	1.500	Jan 2026	-		-		-	0.000	1.724	-
RVAP Zero Trust Architecture Study	Various	Various : Various	-	0.000	Jul 2025	-		-		-		-	0.000	0.000	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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			
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 AFGSC Modernization and Enhancement of Mission Capabilities	Various	Various : Various	-	32.759	Jan 2025	27.024	Feb 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	62.879		66.592		18.814		-		18.814	Continuing	Continuing	N/A
Remarks RVAP AFGSC Modernization and Enhancement of Mission Capabilities - FY25 \$32.759M RVAP AFGSC - FY26 \$27.024M															
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.513	Dec 2024	0.280	Nov 2025	0.300	Nov 2026	-		0.300	Continuing	Continuing	-
Travel	Various	Various : Various	-	0.140	Nov 2024	0.125	Nov 2025	0.075	Nov 2026	-		0.075	Continuing	Continuing	-
Subtotal			-	3.653		0.405		0.375		-		0.375	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	71.926		71.997		22.219		-		22.219	Continuing	Continuing	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 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Radiation-Hardened Advanced Microelectronics																												
RVAP Thermal Protection Systems																												
RVAP SBIR Phase III - Common Dispenser																												
RVAP Future Operating Concepts																												
RVAP EFT 2																												
RVAP Future System Demonstrator (Corvus)																												
RVAP CM Highrider																												
RVAP Path Length Module Inertial Measuring Unit Development																												
RVAP IRIS																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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 Radiation-Hardened Advanced Microelectronics	1	2025	4	2025
RVAP Thermal Protection Systems	1	2025	4	2026
RVAP SBIR Phase III - Common Dispenser	1	2025	3	2026
RVAP Future Operating Concepts	2	2025	4	2026
RVAP EFT 2	1	2025	4	2028
RVAP Future System Demonstrator (Corvus)	1	2025	4	2031
RVAP CM Highrider	3	2025	4	2026
RVAP Path Length Module Inertial Measuring Unit Development	1	2025	4	2025
RVAP IRIS	3	2025	4	2026

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 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
641024: ICBM Command & Control (C2) Applications	0.000	4.773	10.563	19.290	0.000	19.290	10.037	10.028	8.017	8.178	Continuing	Continuing
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 2025 0M was expended for civilian pay expenses in this program element, and in FY 2026 0M is forecasted for civilian pay expenses in this program element.

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

	FY 2025	FY 2026	FY 2027
Title: Command and Control Application Program	4.773	10.563	19.290
Description: Examine and develop concepts for transforming Advanced C2 Capabilities to meet current and future requirements.			
FY 2026 Plans: •Research advanced C2 capabilities to design and develop an enhanced and reliable communication system. •Conduct end-to-end crypto effort for 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 2027 Plans: •Continue Advanced C2 Capabilities research to design and develop an enhanced and reliable communication system. •Finalize end-to-end crypto effort to conduct a variety of cost-benefit studies for future system upgrades and modifications.			
FY 2026 to FY 2027 Increase/Decrease Statement: Increase in FY2027 to address ramping of development activities for Advanced C2 Capabilities' requirement priority			
Accomplishments/Planned Programs Subtotals	4.773	10.563	19.290

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026
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	

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

Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• RDTE 05 0605238F: Ground Based Strategic Deterrent EMD	2,011.024	4,147.563	4,491.775	-	4,491.775	4,629.292	4,295.490	4,662.770	4,248.917	Continuing	Continuing

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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.773	Aug 2025	9.813	Apr 2026	19.290	Nov 2026	-		19.290	Continuing	Continuing	-
C2AP AFGSC Congressional Add	Various	Various : Various	-	0.000	Sep 2025	-		-		-		-	0.000	0.000	-
C2AP End to End Crypto	Various	Various : Various	-	-		0.750	Nov 2025	-		-		-	0.000	0.750	-
Subtotal			-	4.773		10.563		19.290		-		19.290	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	4.773		10.563		19.290		-		19.290	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Advanced C2 Capabilities																												
C2AP AFGSC Congressional Add																												
End-to-End Crypto																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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				
Advanced C2 Capabilities	4	2025	2	2028
C2AP AFGSC Congressional Add	4	2025	4	2026
End-to-End Crypto	1	2026	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
644209: <i>Long Range Planning (LRP)</i>	0.000	2.757	9.138	2.168	0.000	2.168	28.657	24.202	24.464	24.959	Continuing	Continuing
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 2025 0M was expended for civilian pay expenses in this program element, and in FY 2026 0M is forecasted for civilian pay expenses in this program element.

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

	FY 2025	FY 2026	FY 2027
Title: Long Range Planning	2.757	9.138	2.168
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 2026 Plans:			
•Initiate subscale flight test efforts to provide sub scale launch capability for testing experimental technologies to support tech maturation.			
•Conduct 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.			
•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).			
•Conduct Advanced Flight Test Demonstrator Development & Integration Support to demonstrate RV technology in relevant flight environments.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force							Date: April 2026		
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>		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027
•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 <i>FY 2027 Plans:</i> Continue subscale flight test efforts to provide sub scale launch capability for testing experimental technologies to support tech maturation. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Decrease in funding due to reduction in studies and activities taking place in FY27			
Accomplishments/Planned Programs Subtotals	2.757	9.138	2.168

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDTE 05 0605238F: <i>Ground Based Strategic Deterrent EMD</i>	2,011.024	4,147.563	4,491.775	-	4,491.775	4,629.292	4,295.490	4,662.770	4,248.917	Continuing	Continuing
• RDTE 07 0101328F: <i>ICBM Reentry Vehicles</i>	392.423	259.605	587.184	-	587.184	608.176	503.536	498.733	508.708	Continuing	Continuing

Remarks

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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.381	Nov 2024	0.500	Mar 2026	0.500	Nov 2026	-		0.500	Continuing	Continuing	-
Subtotal			-	0.381		0.500		0.500		-		0.500	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		-		-	0.000	1.500	-
LRP Flight Test Platform	Various	Various : Various	-	-		0.300	Apr 2026	-		-		-	0.000	0.300	-
LRP Stage 4 Propulsion	Various	Various : Various	-	0.000	Jun 2025	0.400	Jan 2026	-		-		-	0.000	0.400	-
LRP Strategic Independent Resilient Energy Systems	Various	Various : Various	-	0.800	Dec 2024	-		-		-		-	0.000	0.800	-
LRP System Architecture Framework	Various	Various : Various	-	0.000	Jul 2025	1.938	Dec 2025	-		-		-	0.000	1.938	-
LRP Advanced Flight test demonstrator Development & Integration Support	Various	Various : Various	-	0.753	Jul 2025	1.000	Feb 2026	-		-		-	0.000	1.753	-
LRP SAP IT	Various	Various : Various	-	-		1.000	Jan 2026	-		-		-	0.000	1.000	-
LRP SBIR Phase II	Various	Various : Various	-	0.702	Apr 2025	-		-		-		-	0.000	0.702	-
LRP Experimental Flight Test 1	Various	Various : Various	-	-		-		-		-		-	0.000	0.000	-
LRP Materials equipment and development congressional add	Various	Various : Various	-	0.000	Sep 2025	-		-		-		-	0.000	0.000	-
LRP AFGSC Modernization and Enhancement of Mission Capabilities	Various	TBD : TBD	-	0.000	Sep 2025	-		-		-		-	0.000	0.000	-
Subtotal			-	2.255		6.138		-		-		-	0.000	8.393	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.121	May 2025	2.500	Jan 2026	1.668	Jan 2027	-		1.668	Continuing	Continuing	-
Subtotal			-	0.121		2.500		1.668		-		1.668	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.757		9.138		2.168		-		2.168	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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)	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 SBIR Phase II																												
LRP AFGSC Modernization and Enhancement of Mission Capabilities																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>LRP</i>				
LRP Alt Commercial Launch Provider for Sub-Scale Flight	3	2026	4	2031
LRP Flight Test Platform	3	2026	4	2026
LRP Stage 4 Propulsion	3	2025	4	2026
LRP Strategic Independent Resilient Energy Systems	1	2025	1	2025
LRP System Architecture Framework	4	2025	4	2025
LRP Advanced Flight Test Demonstrator Development & Integration Support and studies	4	2025	4	2026
LRP SBIR Phase II	1	2025	4	2025
LRP AFGSC Modernization and Enhancement of Mission Capabilities	4	2025	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	5.283	10.762	14.394	0.000	14.394	15.191	7.273	7.471	7.623	0.000	67.997
646020: NC3 Advanced Concepts	0.000	5.283	10.762	14.394	0.000	14.394	15.191	7.273	7.471	7.623	0.000	67.997
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.

"NC3 Prototypes & Demonstrations" will focus on the development and operational evaluation of emerging capabilities. This area will 1) create functional prototypes of technologies and system concepts to assess their utility and technical feasibility, 2) conduct a series of demonstrations and experiments in operationally relevant environments to validate performance, and 3) leverage comprehensive methodology to respond to changing warfighter needs to inform requirement refinement. The objective is to reduce technical risk, accelerate the learning process, and provide tangible evidence to guide formal acquisition and integration decisions.

"NC3 Technology Insertion & Transition" will bridge the gap between mature prototypes and their integration into operational programs of record. Key activities include 1) identifying and maturing promising technologies from prototypes, laboratory environments, and industry, 2) developing transition plans and strategies in collaboration with NC3 programs or other stakeholders to ensure successful handoffs, and 3) providing advice on the integration of these new capabilities into the existing NC3 architecture and sustainment planning. This ensures that successful innovations are effectively scaled and delivered to programs, reducing life cycle costs, and providing mature technologies.

Additional details can be provided at a higher classification.

Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 0604001F I NC3 Advanced Concepts				
This program element included all necessary 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, and 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		5.448	15.910	0.000	0.000	0.000
Current President's Budget		5.283	10.762	14.394	0.000	14.394
Total Adjustments		-0.165	-5.148	14.394	0.000	14.394
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-5.014			
• 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		-0.165	-0.134			
• Other Adjustments		0.000	0.000	14.394	0.000	14.394
Change Summary Explanation						
FY25: SBIR/STTR Reduction -0.165 million						
FY26: Congressional Mark -5.014 million for unjustified growth and Sec 8151 SBIR/STTR Reduction -0.134 million						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: NC3 Advanced Concepts				5.283	10.762	14.394
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 2026 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
•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 •Continue to support early development and risk reduction of emerging applicable technologies in areas such as: --Radio enhancements --Antenna improvements --Evaluation of alternative communication paths for NC3 --Cyber resiliency --Network communications services --Hardware enhancements --Inform evolving NC3 requirements and reduce risk via prototyping for emerging NC3 programs such as Sentinel and SAOC, Tankers, B-21, MC2S, etc • 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. FY 2027 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 •Continue to support early development and risk reduction of emerging applicable technologies in FY2027, including: --Radio enhancements --Antenna improvements --Evaluation of alternative communication paths for NC3 --Cyber resiliency				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
--Network communications services --Hardware enhancements --Inform evolving NC3 requirements and reduce risk through prototyping for emerging NC3 programs like Sentinel and SAOC, Tankers, B-21, MC2S, etc • Continue to support High Frequency (HF) engineering analysis and the establishment of experimental infrastructure to reduce technical risk and schedule for potential future programs of record/requirements Details can be provided at higher classification levels. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2026 to FY 2027 budget increase is to fund additional advanced concept efforts: Network communications services, Cyber resiliency, Material Hardening and Alternative communication paths for NC3.				
Accomplishments/Planned Programs Subtotals		5.283	10.762	14.394
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, streamlined Broad Agency Announcement (BAA) solicitations 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	5.283	Oct 2024	10.762	Oct 2025	14.394	Oct 2026	-		14.394	Continuing	Continuing	-
Subtotal			-	5.283		10.762		14.394		-		14.394	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	5.283		10.762		14.394		-		14.394	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force	Date: April 2026

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604001F / NC3 Advanced Concepts	Project (Number/Name) 646020 / NC3 Advanced Concepts

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
High Frequency (HF) engineering analysis																												
Early development and risk reduction of emerging applicable technologies																												
Studies, analysis, and prototyping																												
Test bed activities and exercise participation																												
Low Band Infrastructure																												
Iron Iris																												
Platinum Primrose																												
Network Project1																												
Network Project2																												
Material Hardening 1																												
Material Hardening 2																												
Cyber Protection																												
Antenna Development 1																												
Antenna Development 2																												
Antenna Development 3																												
Cyber Situational Awareness																												
Alternative Comms 1																												
Alternative Comms 2																												
Alternative Comms 3																												
Electronic Protections 1																												
Electronic Protections 2																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force

Date: April 2026

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				
High Frequency (HF) engineering analysis	1	2025	4	2031
Early development and risk reduction of emerging applicable technologies	1	2025	4	2031
Studies, analysis, and prototyping	1	2025	4	2031
Test bed activities and exercise participation	1	2025	4	2031
Low Band Infrastructure	1	2025	4	2031
Iron Iris	4	2025	1	2027
Platinum Primrose	4	2026	3	2028
Network Project1	2	2027	4	2028
Network Project2	2	2029	4	2030
Material Hardening 1	2	2026	1	2027
Material Hardening 2	2	2027	4	2028
Cyber Protection	2	2028	4	2029
Antenna Development 1	2	2026	4	2027
Antenna Development 2	2	2028	3	2029
Antenna Development 3	2	2030	4	2031
Cyber Situational Awareness	2	2028	4	2029
Alternative Comms 1	3	2026	4	2028
Alternative Comms 2	2	2029	4	2030
Alternative Comms 3	2	2031	4	2031
Electronic Protections 1	2	2028	2	2029
Electronic Protections 2	2	2030	4	2031

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604001F / NC3 Advanced Concepts	Project (Number/Name) 646020 / NC3 Advanced Concepts
Note NC3 Advanced Concepts (Level of Effort)		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	595.537	870.876	1,040.945	0.000	1,040.945	987.350	937.208	872.539	865.275	Continuing	Continuing
640141: Advanced Battle Management System (ABMS)	0.000	595.537	870.876	1,040.945	0.000	1,040.945	987.350	937.208	872.539	865.275	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

ABMS is the PE funding architecture and systems engineering (ASE), digital infrastructure, a suite of battle management command and control (BMC2) applications and tools used for homeland defense and other tactical C2 mission sets, airborne connectivity (formerly known as aerial networking), deployable systems, and Beyond Line of Sight (BLOS) long range fire & control software capability for specialized targets 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 Portfolio Acquisition Executive for Command, Control, Communication, and Battle Management (DAF PAE 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 interdependent programs over which the DAF PAE 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 PAE C3BM has identified an initial array of approximately 50 core programs spanning various PAEs/Program Executive Offices (PEO), 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 PAE/PEOs overseeing these core programs, DAF PAE C3BM orchestrates 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-PAE/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 PAE 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 PAE C3BM has aligned activities within the ABMS PE portfolio with six major thrust areas:

Thrust Area 1: Architecture and Systems Engineering (ASE) and the Operational Response Team (ORT)

Thrust Area 1a ASE: Mission Domain Architecture and Mission Integration Teams: 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).

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 1b: The Operational Response Team facilitates quick reaction prototyping and experimentation in response to warfighter-led efforts and new relevant technologies. The culmination of Thrust 1 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 5 thrust areas listed below and the greater C3BM Enterprise. 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 Engineering Group (EEG) 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 DI-Network Integration Lab (DI-NIL) 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, 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 continues to scale to support additional combatant commanders added in FY26. 2) CBC2+ will continue development and extension of CBC2 functionality to other DAF BATTLE NETWORK and tactical C2 entities (e.g. the Tactical Operations Center-Lite, Air Base Air Defense Systems) in line with Air Combat Command's (ACC) Common BMC2 Interface concept and the ABMS CFT's Common Battle Management Engine (CBME) capability need statement, 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 Airborne Connectivity" will develop key technologies for the "final leg" connection of C3BM DI and Software and Applications to DAF airborne assets. Airborne Connectivity activities include: 1) Phalanx Griffon (PG), to extend C3BM airborne connectivity capabilities to tactically relevant aircraft. Major Release (MR) 2 will initiate and support initial capability delivery to long-range fires platforms in 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 Sensor Open Systems Architecture (SOSA)-aligned, liquid and air-cooled integrated hybrid SATCOM chassis for rapid integration of PG capability in FY27, and 3) the C3 Hybrid SATCOM (C3HST) product line. The C3HST product line consists 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" 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		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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)	
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.		
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, Systems Engineering, Test & Evaluation 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.		
Additional alignment of the ABMS portfolio (PE) to minimize duplication of effort are:		
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.		
ABMS Software and Applications and DI aligns with USAF investment in Mission Planning Systems (PE 0208006F), Air Operations Center (0207410F), All Domain Common Platform (0303248F), and Command and Control Incident Management Emergency Response Application (C2IMERA) (0305836F), and Flight Operations (0207461F) to deliver the Theater Air Planning System of Systems (TAP-SoS) architecture for the DAF BATTLE NETWORK providing the development, infrastructure, and support necessary for each of these programs and TAP-SoS interdependencies to deliver the capabilities required for deliberate planning, dynamic mission replanning, friendly order of battle management, and mission tasking and execution.		
ABMS Airborne Connectivity aligns with USAF investment in Tactical Datalinks Network Enterprise (0604281F), and Tech Transition - Air (0604858F) to deliver beyond line of sight communications to airborne assets integration on the DAF BATTLE NETWORK.		
ABMS Deployable Systems aligns with USAF investment in Control and Reporting Center (0207412F) and Air Base Air Defense Systems (0207522F) to deliver a common hardware and software baseline for DAF BATTLE NETWORK deployable systems.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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)	
ABMS DAF Integrated Fires C2 aligns with Tech Transition - Air (0604858F), AF DCGS (0305208F) and ISR Transport and Processing (0305240F), formerly Support to DCGS Enterprise, to deliver the Long Range Fires architecture for the DAF BATTLE NETWORK.		
The total cost of the Distributable Battle Management Node (DBMN) Phase II Tactical Operations Center-Light Middle Tier of Acquisition effort is 473.076 million, including RDT&E and procurement of prototype units. The Distributable Battle Management Node (DBMN) Phase I Tactical Operations Center-Light is fully funded across the Future Years Defense Program.		
The total cost of the Deployable Digital Infrastructure Middle Tier of Acquisition effort is 53.7 million, including RDT&E and procurement of prototype units. The Deployable Digital Infrastructure is fully funded across the Future Years Defense Program.		
The total cost of the Digital Infrastructure Network Major Release #1 Middle Tier of Acquisition effort is 399.1 million, including RDT&E and procurement of prototype units. The Digital Infrastructure Network Major Release #1 is fully funded across the Future Years Defense Program.		
The total cost of the Fixed Digital Infrastructure (FDI) Middle Tier of Acquisition effort is 185.9 million, including RDT&E and procurement of prototype units. The Fixed Digital Infrastructure (FDI) is fully funded across the Future Years Defense Program.		
The total cost of the Phalanx Griffon MR2 Middle Tier of Acquisition effort is 304.3 million, including RDT&E and procurement of prototype units. The Phalanx Griffon MR2 is fully funded across the Future Years Defense Program.		
Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.		
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 2027 Air Force				Date: April 2026		
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)				
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		611.943	1,040.475	0.000	0.000	0.000
Current President's Budget		595.537	870.876	1,040.945	0.000	1,040.945
Total Adjustments		-16.406	-169.599	1,040.945	0.000	1,040.945
• Congressional General Reductions		0.000	-160.742			
• 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		-16.406	-8.857			
• Other Adjustments		0.000	0.000	1,040.945	0.000	1,040.945
Change Summary Explanation						
The FY2025 reduction of 16.406M is due to SBIR.						
The FY2026 reduction of 8.857M is due to SBIR. The reduction of 160.742M is due to congressional mark.						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Architecture and Systems Engineering (ASE) and Operational Response Team (ORT)				67.438	86.878	95.109
Description: Thrust 1a: 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. Thrust 1B: The Operational Response Team is the office responsible for empowering the PAE with relevant C3BM solutions by rapidly prototyping, experimenting, and facilitating seamless transitions from architecture to acquisition to operations, always maintaining an operator-centric focus.						
FY 2026 Plans:						
Thrust 1a Mission Domain Architectures (MDA) and Mission Integration Team (MITs):						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
-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. Thrust 1b 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 2027 Plans: Thrust 1a Mission Domain Architectures (MDA) and Mission Integration Team (MITs):				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
-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. Thrust 1b 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 2026 to FY 2027 Increase/Decrease Statement: Funding increases in FY 2027 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 6 MITs in FY27 to provide a				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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. 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 2026 Plans: Enterprise Engineering Group (EEG): -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. -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.		235.511	283.839	228.721

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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) -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 DI Network Integration Lab (DI-NIL): -Continue experimentation efforts to accelerate requirements development. -Continue to integrate with and expand connections to Joint Partners. -Continue deployment of ABMS Digital Infrastructure to the DI-NIL. -Prepare to support experimentation for Distributed Battle Management Applications (DBMA) and CBC2+. FY 2027 Plans: Enterprise Engineering Group (EEG): -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. -Test and Evaluation: Continue to analyze artifacts to test mission area architecture. ABMS Digital Infrastructure (DI):		FY 2025	FY 2026	FY 2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 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 DI-Network Integration Lab (DI-NIL): -Continue experimentation efforts to accelerate requirements development. -Continue to integrate with and expand connections to Joint Partners. -Continue deployment of ABMS Digital Infrastructure to the DI-NIL. -Prepare to support experimentation for Distributed Battle Management Applications (DBMA) and CBC2+.		FY 2025	FY 2026	FY 2027
FY 2026 to FY 2027 Increase/Decrease Statement: While funding decreases in FY 2027, C3BM DI will continue development, procurement, and implementation of Deployable, Fixed, and Remote DI Processing nodes to tactical and operational C2 echelons of command, cloud, platform, and infrastructure offerings, as well as the integration and deployment of the DI-Network.				
Title: C3BM Software and Applications 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, DAFCw 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		136.045	149.878	198.268

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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 Find, Fix, Track, Target, Engage, and Assess (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. Common BMC2 Interface (CBC2+): -The extensibility of CBC2 aligns to Operational Imperative #2 initiatives associated with distributed battle management and ACC's 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 are for extension of CBC2 functionality to other DAF BATTLE NETWORK and tactical C2 entities (e.g. the Tactical Operations Center-Lite, Air Base Air Defense Systems) in line with Air Combat Command's (ACC) Common BMC2 Interface concept and the ABMS CFT's Common Battle Management Engine (CBME) capability need statement. CBC2+ work will also encompass coalition agreements, partnerships and data sharing for enhanced battle management activities. FY 2026 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.				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
-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. Common BMC2 Interface: -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-Lite, Air Base Air Defense Systems) with the goal to gain operational acceptance of CBC2 tactical C2 software suite by Q4 FY 2026. -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 2027 Plans: CBC2: -Continue supporting activities focused on 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.				

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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 2025	FY 2026	FY 2027
- Continue to ingest, fuse, and analyze data from military, government, and commercial sources to multi-classification cloud environments. -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 releases (MVCRs), iteratively building upon 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. Common BMC2 Interface: -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 develop automated and operator-selectable tasking of assets, voice, data and C2. -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-Lite, Air Base Air Defense Systems). -Iteratively build and integrate human machine teaming, AI/ML capabilities aligned with the Common Battle Management Engine (CBME) and Transformational Model -Decision Advantage concepts -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 2026 to FY 2027 Increase/Decrease Statement: Funding will increase significantly in FY 2027 due to continuous integration and continuous delivery (CI/CD) software development for CBC2+ activities for multiple Combatant Commands simultaneously, CBC2 development cost begins to stabilize in FY 2027. Software teams will scale up contributions 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-Lite and Air Base Air Defense Systems.				
Title: C3BM Airborne Connectivity (AC) Description: Under Thrust Area #4, the C3BM Airborne Connectivity efforts encompass two efforts to deliver secure processing and connectivity architecture solutions that will enable sensor and effects integration with DAF platforms. Airborne Connectivity		56.709	156.626	194.543

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C. Accomplishments/Planned Programs (\$ in Millions) leverages government reference architecture and the ongoing ABMS DI investments to connect select Tactical Air assets and C2 functions to the ABMS cloud at the tactical edge, enhancing Situational Awareness and decision making at multiple echelons. C3BM Airborne Connectivity includes Phalanx Griffon (PG), a follow-on effort to Capability Release #1, which will extend AC architecture and capabilities to tactically relevant aircraft based on maturing operational concepts and airborne connectivity 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. Airborne Connectivity prototype efforts will inform future design and fielding activities for platforms and C2 functions.		FY 2025	FY 2026	FY 2027
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 2027 Plans: Phalanx Griffon: -Continue developing/integrating 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). -Continue to 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.				

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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 2025	FY 2026	FY 2027
C3 Hybrid SATCOM: -Continue developing multi-band SATCOM apertures and terminals. -Continue development of 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 2026 to FY 2027 Increase/Decrease Statement: Funding will increase significantly in FY 2027 as AC will continue progress of Phalanx Griffon development and hardware procurement. Additionally, development and procurement of C3 Hybrid SATCOM terminal and apertures will continue throughout FY 2027.				
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. 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 6 TOC-L MR 2 kits with complete product support. -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 2027 Plans:		43.603	60.000	146.224

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) -Will complete experimentation and testing with TOC-L MR 2 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 conclude formal combined Developmental Test and Evaluation and Operational Test and Evaluation and will inform full prototype production decision and follow-on fielding effort determination. -Will deliver up to 15 TOC-L MR 2 kits with complete product support. -Will continue to 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 to FY 2027 Increase/Decrease Statement: Funding increasing due to MR2 contract activities ramping up prototype production quantities in FY 2027, increase in cost per DDI kit, and continuing to deliver up-to-date software features for BC3.		FY 2025	FY 2026	FY 2027
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 will mature prototype activities, delivering "MTI & Tracking at Scale" as authorized under Section 229 FY24 NDAA. The program is charged to integrate multiple disparate systems into the DAF BATTLE NETWORK, delivering fused theater battle management, target-sensor orchestration and custody software, enabling beyond line-of-sight anti-access/area denial strike capabilities to penetrate adversary defenses at range. 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. FY 2026 Plans: -Funding and guiding prototype capability development efforts to reduce technical integration risk. -Establish required documentation, personnel, infrastructure, and pipeline resources to support transition of existing prototypes into a common baseline for continued development. -In line with achieving operationally optimized advanced battle management systems / Air Force Joint All-Domain Command & Control (AF JADC2)) & defining the next generation air dominance (NGAD) system-of-systems, the DIFC2 program will continue to pursue modeling and simulation, demonstrate signal chain feasibility in a lab environment, conduct infrastructure systems engineering and cybersecurity work, develop battle management microservices, conduct a technical readiness assessment, and prepare technology for injection into a Joint Exercise. Activities will support declaration of a technically proven, initial maritime mission thread minimum viable product definition. FY 2027 Plans:		0.000	60.000	72.816

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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 2025	FY 2026	FY 2027
-Continue to fund and guide prototype capability development efforts. -Continue to establish required documentation, personnel, infrastructure, and pipeline resources to support transition of existing prototypes into a common baseline for continued development. -Deliver initial maritime mission thread minimum viable capability release to the warfighter for operational acceptance -Further mature maritime mission thread technology delivery to expand engagement capability envelope -Leverage initial technology delivery to refine modeling and simulation, demonstration of signal chain feasibility, continue infrastructure systems engineering and cybersecurity work, development of battle management microservices, and conduct of a technical readiness assessment in preparation for technology injection into a Joint Exercise and delivery to the warfighter. Activities will support declaration of a technically proven, initial air mission thread minimum viable product definition, and will be further developed for warfighter acceptance in FY 2028. FY 2026 to FY 2027 Increase/Decrease Statement: Funding will increase slightly in FY 2027 as DIFC2 will continue to mature automated functional applications for sensor tasking, track custody, processing of orders, battle management, and communications management to meet cybersecurity, testing, and integration work required for initial warfighter capability delivery. Further the program will integrate applications for a signal chain demonstration while ensuring software transferability to a scalable enterprise digital infrastructure. Additionally, DIFC2 will assess technical readiness of the integrated system as it prepares to contribute to a joint exercise, and ultimately initial delivery to the warfighter for acceptance.				
Title: Program Management, Systems Engineering, and Test & Evaluation Support Description: This area funds the planning and execution of Program Management, Systems Engineering, and Test & Evaluation support activities across all major ABMS thrust areas. Support in this area is provided through Advisory and Assistance Services (A&AS) and Systems Engineering and Technical Advisory (SETA) contracts as well as through civilian pay in support of all ABMS Thrust Area activities to deliver Command and Control (C2) capabilities to the warfighter. FY 2026 Plans: -Will support all ABMS Thrust areas (ASE, ORT, DI, SwA, AC, DS, DIFC2) with program management A&AS and SETA support. -Will support ORT prototype integration and experimentation of digital tactical edge connectivity prototypes and aid their transition to C3BM DI for further development. -Will support on-going testing activities associated with Digital Infrastructure-Network and Digital Infrastructure processing nodes. -Will support planning and testing CBC2/CBC2+ quarterly MVCRs and CBC2 Operational Acceptance. -Will support planning for test and demonstration activities associated with Phalanx Griffon and C3 Hybrid SATCOM. -Will support testing with TOC-L MR 1 kits in multi-domain joint force exercises, the integration and acceptance testing of the first article MR 2 prototypes, and formal combined Developmental and Operational Test and Evaluation to inform full prototype production decision and follow-on fielding effort determination.		56.231	73.655	105.264

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
-Will support integration and test and evaluation activities associated with the release of DIFC2 MVCR #1. FY 2027 Plans: -Will continue to support all ABMS Thrust areas (ASE, ORT, DI, SwA, AC, DS, DIFC2) with program management A&AS and SETA support. -Will continue to support ORT prototype integration and experimentation of digital tactical edge connectivity prototypes and aid their transition to C3BM DI for further development. -Will continue to support on-going testing activities associated with Deployable and Fixed Digital Infrastructure processing nodes. -Will continue to support planning and testing CBC2/CBC2+ quarterly MVCRs -Will continue to support planning for test and demonstration activities associated with Phalanx Griffon and C3 Hybrid SATCOM. -Will support completion of testing TOC-L MR 2 kits and conclusion of formal combined Developmental and Operational Test and Evaluation to inform full prototype production decision and follow-on fielding effort determination. -Will support integration and test and evaluation activities associated with the release of DIFC2 MVCR #2. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increases in FY 2027 as testing activities continue to scale in support of continued MVCR releases and hardware procurement and deployments across the Thrust Areas.				
Accomplishments/Planned Programs Subtotals		595.537	870.876	1,040.945
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 interdependent acquisition programs 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. 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 PAE 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 FY2027, as a number of digital				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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)	
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 2027 Air Force												Date: April 2026			
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>					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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: 1a. Mission Domain Architecture & Mission Integration Team	Various	DAF PEO C3BM: Multiple : TBD	-	59.138	Oct 2024	78.058	Oct 2025	84.073	Oct 2026	-		84.073	Continuing	Continuing	-
ASE: 1b. Operational Response Team	Various	DAF PEO C3BM: Multiple : TBD	-	8.300	Oct 2024	8.820	Oct 2025	11.036	Oct 2026	-		11.036	Continuing	Continuing	-
DI: ABMS Digital Infrastructure	Various	DAF PEO C3BM: Multiple : TBD	-	235.511	Oct 2024	283.839	Oct 2025	228.721	Oct 2026	-		228.721	Continuing	Continuing	-
Deployable Systems: Distributable Battle Management Node/TOC-L	Various	DAF PEO C3BM: Multiple : TBD	-	43.603	Oct 2024	60.000	Oct 2025	146.224	Oct 2026	-		146.224	Continuing	Continuing	-
Software/Apps: Cloud-Based Command and Control (CBC2)	Various	DAF PEO C3BM: Multiple : TBD	-	109.545	Oct 2024	63.667	Oct 2025	62.228	Oct 2026	-		62.228	Continuing	Continuing	-
Software/Apps: Common BMC2 Interface (CBC2+)	Various	DAF PEO C3BM: Multiple : TBD	-	26.500	Oct 2024	86.211	Oct 2025	136.040	Oct 2026	-		136.040	Continuing	Continuing	-
Airborne Connectivity: Phalanx Griffon	Various	DAF PEO C3BM: Multiple : TBD	-	56.709	Oct 2024	95.490	Oct 2025	94.766	Oct 2026	-		94.766	Continuing	Continuing	-
Airborne Connectivity: C3 Hybrid SATCOM	Various	DAF PEO C3BM: Multiple : TBD	-	-		61.136	Oct 2025	99.777	Oct 2026	-		99.777	Continuing	Continuing	-
DAF Integrated Fires C2	Various	DAF PEO C3BM: Multiple : TBD	-	-		60.000	Oct 2025	72.816	Oct 2026	-		72.816	Continuing	Continuing	-
SBIR/STTR	TBD	TBD : TBD : TBD	-	0.000	Oct 2024	0.000	Oct 2025	38.568	Oct 2026	-		38.568	Continuing	Continuing	-
Subtotal			-	539.306		797.221		974.249		-		974.249	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.300	Oct 2024	6.943	Oct 2025	7.151	Oct 2026	-		7.151	Continuing	Continuing	-
Subtotal			-	3.300		6.943		7.151		-		7.151	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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)					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	7.270	Jan 2025	7.561	Jan 2026	7.788	Jan 2027	-		7.788	Continuing	Continuing	-
Software/Apps: Test	Various	Various : TBD	-	1.988	Jan 2025	2.048	Jan 2026	2.109	Jan 2027	-		2.109	Continuing	Continuing	-
Airborne Connectivity: Test	Various	Various : TBD	-	2.600	Jan 2025	2.678	Jan 2026	2.759	Jan 2027	-		2.759	Continuing	Continuing	-
Deployable Systems: Test	Various	Various : TBD	-	-		1.567	Jan 2026	1.614	Jan 2027	-		1.614	Continuing	Continuing	-
DAF Integrated Fires C2	Various	Various : TBD	-	-		0.746	Jan 2026	0.768	Jan 2027	-		0.768	Continuing	Continuing	-
Subtotal			-	11.858		14.600		15.038		-		15.038	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/SETA	Various	Various : TBD	-	11.348	Oct 2024	16.579	Oct 2025	11.644	Oct 2026	-		11.644	Continuing	Continuing	-
Other Support	Various	Various : TBD	-	29.725	Oct 2024	35.533	Oct 2025	32.863	Oct 2026	-		32.863	Continuing	Continuing	-
Subtotal			-	41.073		52.112		44.507		-		44.507	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	595.537		870.876		1,040.945		-		1,040.945	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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>

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
ASE: 1a. Mission Domain Architecture and Mission Integration Team																												
ASE: 1b. Operational Response Team																												
DI: ABMS Digital Infrastructure																												
DI: ABMS DI Test																												
Software/Apps: Cloud-Based Command and Control (CBC2)																												
Software/Apps: Common BMC2 Interface (CBC2+)																												
Software/Apps: Test																												
Airborne Connectivity: Phalanx Griffon																												
Airborne Connectivity: C3 Hybrid SATCOM																												
Airborne Connectivity: Test																												
Deployable Systems: Distributable Battle Management Node (DBMN)/TOC-L																												
Deployable Systems: Test																												
DAF Integrated Fires C2																												
DAF Integrated Fires C2: Test																												
A&AS																												
Other Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ABMS				
ASE: 1a. Mission Domain Architecture and Mission Integration Team	1	2025	4	2031
ASE: 1b. Operational Response Team	1	2025	4	2031
DI: ABMS Digital Infrastructure	1	2025	4	2031
DI: ABMS DI Test	2	2025	4	2031
Software/Apps: Cloud-Based Command and Control (CBC2)	1	2025	4	2026
Software/Apps: Common BMC2 Interface (CBC2+)	1	2025	4	2031
Software/Apps: Test	2	2025	4	2031
Airborne Connectivity: Phalanx Griffon	1	2025	4	2031
Airborne Connectivity: C3 Hybrid SATCOM	1	2025	4	2031
Airborne Connectivity: Test	2	2025	4	2031
Deployable Systems: Distributable Battle Management Node (DBMN)/TOC-L	1	2025	4	2031
Deployable Systems: Test	1	2025	4	2031
DAF Integrated Fires C2	1	2025	4	2031
DAF Integrated Fires C2: Test	2	2026	4	2031
A&AS	1	2025	4	2031
Other Support	1	2025	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 0604004F / <i>Advanced Engine Development</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	96.470	25.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	121.470
643608: <i>Advanced Engine Dev</i>	0.000	96.470	25.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	121.470

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 (EMD) and platform integration efforts within this program. Prototyping and assessments of the prototypes at sea-level, simulated altitudes, and durability assessments across multiple power settings provide 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. Digital transformation, modernization, and expansion of the propulsion industrial base are additional facets of the AED program essential to re-building the military and industrial base surge capacity.

Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

This program element included all necessary 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, and 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 2027 Air Force	Date: April 2026

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 0604004F I <i>Advanced Engine Development</i>

B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	100.000	0.000	0.000	0.000	0.000
Current President's Budget	96.470	25.000	0.000	0.000	0.000
Total Adjustments	-3.530	25.000	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	25.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-3.530	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 643608: *Advanced Engine Dev*

Congressional Add: *Advanced Engine Development*

Congressional Add: *Collaborative Combat Aircraft (CCA) Propulsion*

Congressional Add Subtotals for Project: 643608

Congressional Add Totals for all Projects

FY 2025	FY 2026
96.470	10.000
0.000	15.000
96.470	25.000
96.470	25.000

Change Summary Explanation

The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604004F / Advanced Engine Development				Project (Number/Name) 643608 / Advanced Engine Dev			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
643608: Advanced Engine Dev	0.000	96.470	25.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	121.470
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
Advanced Engine Development (AED) activities include all efforts necessary to mature and validate transition readiness of advanced propulsion system architectures, designs, enabling advanced materials, component technologies, and manufacturing processes in realistic environments across all thrust classes of propulsion. Validated materials, architectures, designs, and manufacturing processes and techniques may advance for follow-on Engineering, Manufacturing and Development (EMD) and platform integration. Materials and component technologies may advance for insertion into fielded engines and or engines in production. 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.												
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2025	FY 2026			
Congressional Add: Advanced Engine Development								96.470	10.000			
FY 2025 Accomplishments: No FY2025 funding requested. Secured approval of FY2025 congressional add spend plan. Initiated pre-contract award activities for approved efforts.												
FY 2026 Plans: No FY2026 funding requested. Execute FY25 Congressional program increase in accordance with approved spend plan. Secure spend plan approval for FY2026 congressional program increase. Award contract(s) for and execute approved efforts.												
Congressional Add: Collaborative Combat Aircraft (CCA) Propulsion								0.000	15.000			
FY 2025 Accomplishments: No FY2025 funding requested. Secured approval of FY2025 congressional add spend plan for Advanced Engine Development which included an allocation for Collaborative Combat Aircraft propulsion. Initiated pre-contract award activities for approved effort.												
FY 2026 Plans: No FY2026 funding requested. Execute allocated portion of FY25 Congressional program increase in accordance with approved spend plan. Secure spend plan approval for FY2026 congressional program increase. Award contract(s) for and execute approved efforts.												
Congressional Adds Subtotals								96.470	25.000			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604004F / <i>Advanced Engine Developm ent</i>	Project (Number/Name) 643608 / <i>Advanced Engine Dev</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks Additional details available in the appropriate forum.		
D. Acquisition Strategy Leverage the contractual scope, available contract ceiling and schedule efficiencies of existing Federal Acquisition Regulation (FAR) based contracts, Other Transactional Authority (OTA) agreements, and Broad Agency Announcements. 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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604004F / Advanced Engine Development				Project (Number/Name) 643608 / Advanced Engine Development					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/TBD	TBD : TBD	-	96.470	Apr 2026	10.000	May 2026	-		-		-	0.000	106.470	-
Collaborative Combat Aircraft (CCA) Propulsion	C/TBD	TBD : TBD	-	0.000		15.000	May 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	96.470		25.000		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	96.470		25.000		-		-		-	Continuing	Continuing	N/A
Remarks															
Apportionment of FY2025 Advanced Engine Development funding available in appropriate forum.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 4						PE 0604004F / Advanced Engine Developm ent						643608 / Advanced Engine Dev			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Period of Performance																												
Collaborative Combat Aircraft Propulsion																												
Period of Performance																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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				
Period of Performance	4	2025	2	2027
Collaborative Combat Aircraft Propulsion				
Period of Performance	2	2026	2	2027

Note
Additional details available in the appropriate forum.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	50.702	66.249	61.355	0.000	61.355	0.000	0.000	0.000	0.000	0.000	178.306
640860: Nuclear Command Control and Communications (NC3)	0.000	50.702	66.249	61.355	0.000	61.355	0.000	0.000	0.000	0.000	0.000	178.306
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

A. Mission Description and Budget Item Justification

The Department of the Air Force (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's 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 Department of War (DoW) 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 DoW partners to appropriately utilize multiple communications paths to increase resilience, and to integrate with hybrid architectures under the United States Space Force (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 the

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026				
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					
Global Positioning System (GPS) or other advanced precision DoW 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 DoW 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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		52.524	67.081	0.000	0.000	0.000	
Current President's Budget		50.702	66.249	61.355	0.000	61.355	
Total Adjustments		-1.822	-0.832	61.355	0.000	61.355	
• 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		-1.822	-0.832				
• Other Adjustments		0.000	0.000	61.355	0.000	61.355	
Change Summary Explanation							
FY2026 President's Budget submittal did not reflect FY2027 through FY2030 funding. Therefore, an explanation of the change between the two budget positions for FY2027 cannot be made in a relevant manner.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: Commercial Leveraging for the Nuclear Enterprise					50.702	66.249	61.355
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 DoW/ commercial terrestrial networks. Includes prototype of coarse navigation capability. Establish partnerships with DoW partners for secure data transport across multiple links. Initiate efforts with United States Air Force (USAF) program offices for the key platforms to facilitate integration assessments.							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
FY 2026 Plans: - Initiate delivery and ground test of multi-constellation satellite communication (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. FY 2027 Plans: - Complete development and test of multi-constellation SATCOM terminals from multiple providers. - Complete development and test of compact multi-band antenna for size-constrained aircraft. - Complete SATCOM integration and test on prioritized aircraft. - Complete development of coarse navigation without reliance on GPS. FY 2026 to FY 2027 Increase/Decrease Statement: The FY 2027 request was reduced by 4.894 million due to planned ramp down and completion of program. Elements developed under this program will transition to fielding under DAF Portfolio Acquisition Executive for Command, Control, Communications and Battle Management (PAE C3BM) and specific platforms.				
Accomplishments/Planned Programs Subtotals		50.702	66.249	61.355
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 the Air Force Research Laboratory (AFRL) Commander. The ceiling and scope of the ASP are sufficient for execution of the planned funds. The federally funded research and development center (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 PAE and Program Executive Office (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 2027 Air Force												Date: April 2026			
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)			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	5.000	Jan 2025	10.000	Nov 2025	13.000	Nov 2026	-		13.000	0.000	28.000	-
Prototype Terminals Vendor 2	C/CPFF	Northrop Grumman : San Diego, CA	-	14.640	Nov 2024	8.500	Nov 2025	10.000	Nov 2026	-		10.000	0.000	33.140	-
Prototype Terminals Vendor 3	C/FFP	SES-SD : Reston, VA	-	9.569	Nov 2024	-		-		-		-	0.000	9.569	-
Prototype Antenna Vendor 1	C/CPFF	Viasat : Carlsbad, CA	-	4.500	Jul 2025	14.000	Oct 2025	6.500	Nov 2026	-		6.500	0.000	25.000	-
Prototype Antenna Vendor 2	C/CPFF	Northrop Grumman : Baltimore, MD	-	3.000	May 2025	8.000	Dec 2025	5.012	Nov 2026	-		5.012	0.000	16.012	-
DEUCSI Experimentation	C/CPFF	Lockheed Martin : Fort Worth, TX	-	-		-		-		-		-	0.000	0.000	-
Multi Band SATCOM Experimentation	C/CPFF	Intelsat : McLean, VA	-	-		-		-		-		-	0.000	0.000	-
Radio System Development and Experimentation	C/CPFF	Northrop Grumman : Herndon, VA	-	-		-		-		-		-	0.000	0.000	-
Platform Integration Sudies 2	C/CPFF	Northrop Grumman : San Diego, CA	-	-		-		-		-		-	0.000	0.000	-
Platform Integration	C/Various	Not specified. : TBD	-	9.000	Jun 2025	16.143	Jan 2026	15.000	Dec 2026	-		15.000	0.000	40.143	-
Subtotal			-	45.709		56.643		49.512		-		49.512	0.000	151.864	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 UARC Support	MIPR	GTRI : GA	-	2.653	May 2025	2.800	Nov 2025	2.602	Nov 2026	-		2.602	0.000	8.055	-
Subtotal			-	2.653		2.800		2.602		-		2.602	0.000	8.055	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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)			
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		2.373	Apr 2026	4.600	Jan 2027	-		4.600	0.000	6.973	-
Subtotal			-	-		2.373		4.600		-		4.600	0.000	6.973	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		1.000	Jun 2026	1.407	Jan 2027	-		1.407	0.000	2.407	-
Architecture Analysis FFRDC Support 2	C/CPAF	MIT/LL : Lexington, MA	-	0.500	Jan 2026	0.750	Apr 2026	1.000	Dec 2026	-		1.000	0.000	2.250	-
Program Management Administration	Various	Various : TBD	-	1.840	Jun 2025	2.683	Mar 2026	2.234	Mar 2027	-		2.234	0.000	6.757	-
Subtotal			-	2.340		4.433		4.641		-		4.641	0.000	11.414	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	50.702		66.249		61.355		-		61.355	0.000	178.306	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Communication (NC3)																												
NC3																												
Prototype Terminal Vendor 1																												
Prototype Terminal Vendor 2																												
Prototype Terminal Vendor 3																												
Coarse Navigation																												
Prototype Antenna Vendor 1																												
Prototype Antenna Vendor 2																												
Architecture Analysis UARC Support																												
Flight Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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 Communication (NC3)</i>				
NC3	1	2025	1	2028
Prototype Terminal Vendor 1	2	2025	3	2027
Prototype Terminal Vendor 2	1	2025	3	2027
Prototype Terminal Vendor 3	1	2025	1	2025
Coarse Navigation	1	2025	2	2026
Prototype Antenna Vendor 1	4	2025	2	2027
Prototype Antenna Vendor 2	2	2025	1	2028
Architecture Analysis UARC Support	3	2025	1	2027
Flight Testing	1	2026	1	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0604007F / E-7							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	586.729	1,097.263	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,683.992
644413: E-7A	0.000	586.729	1,097.263	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,683.992
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funds the E-7A program. The E-7A program is intended to replace 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-7A 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-7A is intended to 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-7A will provide a reliable, operationally available, maintainable, and sustainable capability.

E-7A RDT&E efforts include: end item completion and component modification 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 analysis and to support future requirements and airworthiness certification.

E-7A 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-7A 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 2027 Air Force				Date: April 2026			
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					
The total cost of the E-7A Middle Tier of Acquisition effort is 8,237.566 million, including RDT&E and procurement of prototype/Engineering and Manufacturing Development units.							
This program received FY26 200M RDT&E in the FY26CR 119-4 Sec 129 for the purpose of rapid prototyping activities to maintain program schedule and transition to production for the E-7 Wedgetail.							
This program element included all necessary 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, and 0605898F. In FY 2025 8.692 million was expended for civilian pay expenses in this program element, and in FY 2026 7.930 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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		607.413	199.676	0.000	0.000	0.000	
Current President's Budget		586.729	1,097.263	0.000	0.000	0.000	
Total Adjustments		-20.684	897.587	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	900.324				
• Congressional Directed Transfers		0.000	0.000				
• Reprogrammings		0.000	0.000				
• SBIR/STTR Transfer		-20.684	-2.737				
• Other Adjustments		0.000	0.000	0.000	0.000	0.000	
Change Summary Explanation							
FY2025 SBIR -20.684 million, FY2026 Congressional Markup (HR 7148) 900.324 million, FY2026 SBIR -2.737 million							
No Budget Year FY2027 funding requested due to the 2026 PB decision to terminate the E-7A program.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: E-7A					586.729	1,097.163	0.000
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							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
cybersecurity and program protection standards; development efforts to ensure navigation and communication systems comply with GPS M-Code and Narrowband SATCOM mandates.				
FY 2026 Plans: Continuing Rapid Prototyping including the following tasks: - continue prototyping end items and modification components 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 flight planning terminals, deployable mission support systems, and mission crew and maintenance trainers - 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 - continue integrating E-7A capabilities and material purchases into the 737NG aircraft. Will continue to support coalition systems and conduct laboratory System Maturity and Capability Demonstrations, providing basis for follow-on production/fielding, continue analysis, and assemble FAA and Military airworthiness certification packages.				
FY 2027 Plans: N/A				
FY 2026 to FY 2027 Increase/Decrease Statement: The FY 2027 President's Budget does not include funding for the E-7 Wedgetail.				
Title: E-7 C2ISR		-	0.100	0.000
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 2026 Plans: Conduct studies and analysis such as: - Study Block 1 E-7 improvements and ability to build on and or retrofit onto E-7A Block 0 configuration.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027
- Study known and future diminishing manufacturing sources (DMS), develop solutions, and integrate on E-7A.												
FY 2027 Plans: N/A												
FY 2026 to FY 2027 Increase/Decrease Statement: The FY 2027 President's Budget does not include funding for the E-7 Wedgetail.												
Accomplishments/Planned Programs Subtotals										586.729	1,097.263	0.000
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• RDTE 04 0207448F: C2ISR Tactical Data Link	3.383	-	-	-	-	-	-	-	-	0.000	3.383	
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.												
In accordance with congressional direction, the program has executed pre-negotiated contract modifications in FY26 to begin development of Engineering and Manufacturing Development aircraft and address diminishing manufacturing sources for key radar components.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	535.779	Feb 2025	956.952	Oct 2025	-		-		-	Continuing	Continuing	-
E-7A Platform One	Various	Various : TBD	-	4.975	Aug 2025	3.899	Feb 2026	-		-		-	Continuing	Continuing	-
E-7 C2ISR	TBD	Not specified. : TBD	-	-		0.100	Jun 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	540.754		960.951		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	6.855	Jan 2025	9.056	Jan 2026	-		-		-	Continuing	Continuing	-
E-7A Government Furnished Equipment (GFE)	Various	Various : TBD	-	1.023	Jan 2025	2.127	Jan 2026	-		-		-	Continuing	Continuing	-
E-7A Depot Activation	Various	Various : TBD	-	-		76.251	Sep 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	7.878		87.434		-		-		-	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.427	Jan 2025	5.791	Jan 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	2.427		5.791		-		-		-	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026					
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	35.670	Oct 2024	43.087	Oct 2025	-		-		-	Continuing	Continuing	-		
Subtotal			-	35.670		43.087		-		-		-	Continuing	Continuing	N/A		
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	586.729		1,097.263		-		-		-	Continuing	Continuing	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 4					PE 0604007F / E-7					644413 / E-7A									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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-7A Depot Activation																												
E-7 C2ISR																												
E-7 C2ISR																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	3	2026	4	2026
E-7A Depot Activation	4	2026	4	2026
E-7 C2ISR				
E-7 C2ISR	1	2026	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0604009F / AFWERX											
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	62.123	73.499	3.589	0.000	3.589	0.000	0.000	0.000	0.000	Continuing	Continuing
640856: <i>AFWERX Operations and Support</i>	0.000	14.106	27.648	3.589	0.000	3.589	0.000	0.000	0.000	0.000	Continuing	Continuing
640858: <i>AFWERX Prime</i>	0.000	48.017	45.851	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.868

Note

At the conclusion of FY2027, all activities in AFWERX PE 0604009F will be terminated.

A. Mission Description and Budget Item Justification

AFWERX helps the Department of the Air Force (DAF) address warfighter needs by leveraging flexible contracting pathways to accelerate the transition of disruptive commercial dual-use technologies into decisive, war-winning capabilities. AFWERX funds risk reduction efforts for technology agnostic capabilities and provides avenues for the DAF to leverage private capital funds as a resource multiplier, strengthen the domestic defense industrial base, and accelerate commercial preference.

Funding for this program supports administrative and oversight functions for AFWERX and enables effective execution of the SBIR/STTR program. These functions include funding for core operations and support, research and development, front door innovation hubs, information technology infrastructure, outreach, and marketing.

In FY 2027, this program has 0 FTE civilians.

In order to manage, execute, and deliver innovative technology capabilities, this program element may include necessary expenses to support the operation and maintenance of facilities, as well as expenses related to travel, supplies, IT hardware, software and support, 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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		62.580	18.499	0.000	0.000	0.000
Current President's Budget		62.123	73.499	3.589	0.000	3.589
Total Adjustments		-0.457	55.000	3.589	0.000	3.589
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	55.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		-0.457	0.000	3.589	0.000	3.589
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 640856: AFWERX Operations and Support						
Congressional Add: Program Increase						
Congressional Add Subtotals for Project: 640856						
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 - affordable robotically produced unmanned aircraft						
Congressional Add: Program Increase - Autonomy Prime sUAS components						
Congressional Add: Program Increase - Group 1 UAS vertical supply chain integration						
Congressional Add: Program Increase-Rapid operational innovation detachment						
Congressional Add Subtotals for Project: 640858						
Congressional Add Totals for all Projects						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0604009F I AFWERX	
Change Summary Explanation The FY 2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, and explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.		

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640856: AFWERX Operations and Support	0.000	14.106	27.648	3.589	0.000	3.589	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

AFWERX helps the Department of the Air Force (DAF) address warfighter needs by leveraging flexible contracting pathways to accelerate the transition of disruptive commercial dual-use technologies into decisive, war-winning capabilities. AFWERX funds risk reduction efforts for technology agnostic capabilities and provides avenues for the DAF to leverage private capital funds as a resource multiplier, strengthen the domestic defense industrial base, and accelerate commercial preference.

Funding for this program supports administrative and oversight functions for AFWERX and enables effective execution of the SBIR/STTR program.

These functions include funding for core operations and support, front door innovation hubs, information technology infrastructure, outreach, and marketing.

In order to manage, execute, and deliver innovative technology capabilities, this program element may include necessary expenses to support the operation and maintenance of facilities, as well as expenses related to travel, supplies, IT hardware, software and support, etc.

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

	FY 2025	FY 2026	FY 2027
Title: AFWERX	14.106	12.648	3.589
Description: Facilitate key capability development programs to inform and validate use-cases, inform future force design and mature infrastructure for mission integration. Provides support for AFWERX Operations and Support components for core civilian labor, domestic small business innovation efforts, Industry and VC engagement infrastructure, and information systems. Ensure SBIR/STTR execution alignment to effectively leverage Industry engagement and commercialization efforts to maximize return on investment for dual-use technologies.			
FY 2026 Plans: - Continue operation and support activities, development and sustainment of the Acquisition Workforce, and organizational capabilities. - Commence transition and handoff of Spark activities and personnel for development and fielding of Airmen and Guardian centric program management tools to connect the innovation ecosystem.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Continue the development and execution of cohort programs, designed to enable Portfolio Acquisition Executive (PAE) focused execution activities involving the SBIR/STTR program that address Warfighter priorities for companies in the SBIR/STTR program to enhance transition and commercialization success. FY 2027 Plans: - Commence termination of operation and support activities, development and sustainment of the Acquisition Workforce, and organizational capabilities. - Complete transition and handoff of Spark activities and personnel for development and fielding of Airmen and Guardian centric program management tools to connect the innovation ecosystem. - Stop the development and execution of cohort programs, designed to enable Portfolio Acquisition Executive (PAE) focused execution activities involving the SBIR/STTR program that address Warfighter priorities for companies in the SBIR/STTR program to enhance transition and commercialization success. FY 2026 to FY 2027 Increase/Decrease Statement: In FY 2027, funding decreased by \$9.059 million compared to FY2026 due to the commencement of the termination of AFWERX Operations and Support activities.			
Accomplishments/Planned Programs Subtotals		14.106	12.648
		FY 2025	FY 2026
Congressional Add: Program Increase		-	15.000
FY 2026 Plans: Conduct Congressionally directed effort			
Congressional Adds Subtotals		-	15.000
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	6.480	Mar 2025	3.810	Dec 2025	-		-		-	0.000	10.290	-
Congressional Interest Item - Program Increase	Various	Various : Various	-	-		15.000		-		-		-	Continuing	Continuing	-
Subtotal			-	6.480		18.810		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	7.626	Oct 2024	8.838	Oct 2025	3.589	Oct 2026	-		3.589	0.000	20.053	-
Subtotal			-	7.626		8.838		3.589		-		3.589	0.000	20.053	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	14.106		27.648		3.589		-		3.589	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force						Date: April 2026					
Appropriation/Budget Activity						R-1 Program Element (Number/Name)					
3600 / 4						PE 0604009F / AFWERX					
						Project (Number/Name)					
						640856 / AFWERX Operations and Support					

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Operations and Support																												
Operations and Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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
Operations and Support				
Operations and Support	1	2025	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640858: AFWERX Prime	0.000	48.017	45.851	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.868
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AFWERX Prime project is closing out, having successfully leveraged an acquisition approach that utilized government-specific resources to reduce risk in emerging technology markets and enabled the transition of dual-use technologies into Department of War 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 & Counter-sUAS; enhanced, low cost, distributed, scalable and digital Manufacturing, and an AFWERX Autonomy Proving Ground.

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

	FY 2025	FY 2026	FY 2027
Title: AFWERX Prime	6.325	5.851	0.000
Description: Prime is ending its acquisition approach that focused on exploring and transitioning emerging commercial dual-use technologies. The specific technologies previously targeted by AFWERX Prime 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 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 2027 Plans: - Stop government test support and personnel support for existing program contract periods of performance across the AFWERX Prime portfolio. - Complete operational evaluations for Agile Support Prime, leveraging planned commercial certifications and potential initial service use cases. - Complete 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 2027 Air Force			Date: April 2026		
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 2025	FY 2026	FY 2027
- Complete support for manufacturing challenge workshops to scope problems and the solution landscape for high priority focus areas including manufacturing.					
FY 2026 to FY 2027 Increase/Decrease Statement: - In FY 2027, the budget decreased by \$5.851 million due to termination of AFWERX Prime					
Accomplishments/Planned Programs Subtotals			6.325	5.851	0.000
			FY 2025	FY 2026	
Congressional Add: Program Increase-Agility Prime			19.855	0.000	
FY 2025 Accomplishments: Conducted Congressionally directed effort					
FY 2026 Plans: Not applicable					
Congressional Add: Program Increase-Electrification of fixed wing aircraft			4.963	0.000	
FY 2025 Accomplishments: Conducted Congressionally directed effort					
FY 2026 Plans: Not applicable					
Congressional Add: Program Increase-Autonomy Prime			2.481	0.000	
FY 2025 Accomplishments: Conducted Congressionally directed effort					
FY 2026 Plans: Not applicable					
Congressional Add: Program Increase-Maritime autonomous forward area refueling point			4.963	10.000	
FY 2025 Accomplishments: Conducted Congressionally directed effort					
FY 2026 Plans: Not applicable					
Congressional Add: Program Increase-Mass-produced UAS			1.985	0.000	
FY 2025 Accomplishments: Conducted Congressionally directed effort					
FY 2026 Plans: Not applicable					
Congressional Add: Program Increase - affordable robotically produced unmanned aircraft			-	10.000	
FY 2026 Plans: Conduct Congressionally directed effort					
Congressional Add: Program Increase - Autonomy Prime sUAS components			-	15.000	
FY 2026 Plans: Conduct Congressionally directed effort					
Congressional Add: Program Increase - Group 1 UAS vertical supply chain integration			-	5.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force **Date:** April 2026

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

	FY 2025	FY 2026
FY 2026 Plans: Conduct Congressionally directed effort		
Congressional Add: Program Increase-Rapid operational innovation detachment	7.445	0.000
FY 2025 Accomplishments: Conducted Congressionally directed effort		
FY 2026 Plans: Not applicable		
Congressional Adds Subtotals	41.692	40.000

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

N/A

Remarks

D. Acquisition Strategy

The AFWERX Prime effort will cease operations and execute a deliberate program closeout strategy, employing Department of the Air Force (DAF) approved procedures. Prior activities included: 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 priorities; 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.

Transition and Handoff: All relevant intellectual property, acquired data, ongoing documentation, and critical program artifacts will be formally transitioned to the designated successor organization or centralized repository within the DAF/DoW for archival and future reference.

Final Reporting: A comprehensive final program report will be generated to document program activities, key findings, lessons learned, and a final accounting of all expenditures, ensuring full accountability for the terminated effort.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force **Date:** April 2026

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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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-Agility Prime	C/FFP	Various : Various	-	19.855	May 2026	-		-		-		-	0.000	19.855	-
Congressional Interest Item-Autonomy Prime	C/FFP	Various : Various	-	2.481	Apr 2026	-		-		-		-	0.000	2.481	-
Congressional Interest Item-electrification of fixed wing aircraft	C/FFP	Various : Various	-	4.963	May 2026	-		-		-		-	0.000	4.963	-
Congressional Interest Item-maritime autonomous forward area refueling point	C/FFP	Various : Various	-	4.963	May 2026	10.000		-		-		-	0.000	14.963	-
Congressional Interest Item-rapid operational innovation detachment	C/FFP	Various : Various	-	7.445	Dec 2025	-		-		-		-	0.000	7.445	-
Congressional Interest Item-mass produced UAS	C/FFP	Various : Various	-	1.985	Apr 2026	-		-		-		-	0.000	1.985	-
Congressional Interest Item-affordable robotically produces unmanned aircraft	C/FFP	Various : Various	-	-		10.000		-		-		-	Continuing	Continuing	-
Congressional Interest Item-Autonomy Prime sUAS components	C/FFP	Various : Various	-	-		15.000		-		-		-	Continuing	Continuing	-
Congressional Interest Item-Group 1 UAS vertical supply chain integration	C/FFP	Various : Various	-	-		5.000		-		-		-	Continuing	Continuing	-
Subtotal			-	41.692		40.000		-		-		-	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Support	MIPR	Various : Various	-	2.000	Dec 2024	3.213	May 2026	-		-		-	0.000	5.213	-
Acquisition Workforce	Allot	Various : Various	-	-		2.638	May 2026	-		-		-	0.000	2.638	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604009F / AFWERX				Project (Number/Name) 640858 / AFWERX Prime					
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Airworthiness and Test Support	Various	Various : Various	-	1.500	Nov 2024	-		-		-		-	0.000	1.500	-
Subtotal			-	3.500		5.851		-		-		-	0.000	9.351	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.325	Dec 2024	-		-		-		-	0.000	1.325	-
Subtotal			-	1.325		-		-		-		-	0.000	1.325	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.500	Nov 2024	-		-		-		-	0.000	1.500	-
Subtotal			-	1.500		-		-		-		-	0.000	1.500	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	48.017		45.851		-		-		-	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604009F / AFWERX			Project (Number/Name) 640858 / AFWERX Prime				

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Test and Evaluation/Support Personnel																												
Acquisition Workforce																												
Acquisition Workforce																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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
<i>AFWERX Prime Product Development</i>				
Test and Evaluation/Support Personnel	1	2025	4	2026
<i>Acquisition Workforce</i>				
Acquisition Workforce	1	2025	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	489.737	326.010	513.681	0.000	513.681	905.700	865.000	303.300	304.900	Continuing	Continuing
640864: Next Generation Adaptive Propulsion (NGAP)	0.000	489.737	326.010	513.681	0.000	513.681	905.700	865.000	303.300	304.900	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 FY2024) 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 also drives digital transformation of the propulsion industrial base to reduce future integration risks while shortening development timelines.

Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	507.337	330.270	0.000	0.000	0.000	
Current President's Budget	489.737	326.010	513.681	0.000	513.681	
Total Adjustments	-17.600	-4.260	513.681	0.000	513.681	
• 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	-17.600	-4.260				
• Other Adjustments	0.000	0.000	513.681	0.000	513.681	
Change Summary Explanation						
FY2026 SBIR/STTR Transfer						
-\$4.260 million - SBIR Sec 8151 Reduction						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Next Generational Adaptive Propulsion (NGAP)				489.737	326.010	513.681
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 2026 Plans:						
- Continue purchasing materials, fabricating components, performing component rig testing, and planning assembly of prototypes to include integration of instrumentation for prototype testing						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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) - Conduct Assembly Readiness Reviews assessing each contractor's preparedness to proceed with build and assess test risk of their prototype engine. FY 2027 Plans: - Complete purchasing materials and component rig testing. - Continue fabricating components and finalize assembly planning. - Initiate prototype engine assembly and instrumentation. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased by \$187.671 million to maintain competitive prototyping.		FY 2025	FY 2026	FY 2027
Accomplishments/Planned Programs Subtotals		489.737	326.010	513.681
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy In fourth quarter FY 2022 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 (Prototype Build and Test)	C/Various	TBD : TBD	-	-		-		0.000	Oct 2026	-		0.000	Continuing	Continuing	-
Next Generation Adaptive Propulsion (Prototype Build and Test) - Engine OEM 1	C/Various	GE : Evendale, OH	-	237.180	Oct 2024	150.000	Oct 2025	246.112	Oct 2026	-		246.112	0.000	633.292	-
Next Generation Adaptive Propulsion (Prototype Build and Test) - Engine OEM 2	C/Various	PW : Hartford, CT	-	233.882	Oct 2024	150.000	Oct 2025	246.112	Oct 2026	-		246.112	0.000	629.994	-
Next Generation Adaptive Propulsion (Prototype Build and Test) - WSC 1	C/Various	Boeing : St Louis, MO	-	2.366	Oct 2024	5.000	Oct 2025	-		-		-	0.000	7.366	-
Next Generation Adaptive Propulsion (Prototype Build and Test) - WSC 2	C/Various	LM : Ft Worth, TX	-	0.638	Oct 2024	0.000	Oct 2025	-		-		-	0.000	0.638	-
Next Generation Adaptive Propulsion (Prototype Build and Test) - WSC 3	C/Various	NG : Palmdale, CA	-	-		-		-		-		-	0.000	0.000	-
Subtotal			-	474.066		305.000		492.224		-		492.224	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	15.671	Dec 2024	21.010	Dec 2025	21.457	Dec 2026	-		21.457	Continuing	Continuing	-
Subtotal			-	15.671		21.010		21.457		-		21.457	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026				
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	489.737		326.010		513.681		-		513.681	Continuing	Continuing	N/A

Remarks
OEM - Original Equipment Manufacturer WSC - Weapon System Contractor GE - General Electric PW - Pratt & Whitney LM - Lockheed Martin NG - Northrop Grumman

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 4						PE 0604010F / Next Generation Adaptive Propulsion						640864 / Next Generation Adaptive Propulsion (NGAP)			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Prototype Planning & Detailed Design																												
Prototype Fabrication & Engine Assessments																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604010F / <i>Next Generation Adaptive Propulsion</i>	Project (Number/Name) 640864 / <i>Next Generation Adaptive Propulsion (NGAP)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Next Generation Adaptive Propulsion</i>				
Prototype Planning & Detailed Design	1	2025	2	2025
Prototype Fabrication & Engine Assessments	2	2025	4	2031

Note

The Next Generation Adaptive Propulsion effort consists of six phases: initial design, preliminary design, prototype planning, detailed design, prototype fabrication, and engine assessments. Initial and preliminary activities were completed in 1Q FY2023. Prototype planning and detailed design activities were completed in 2Q FY 2025. Delivery orders for prototype fabrication and engine assessments were 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 providing options for future Next Generation Air Dominance (NGAD) family of systems capabilities.

Additional details can be provided in the appropriate forum.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	2,565.533	2,729.511	2,862.677	0.000	2,862.677	2,291.100	1,677.221	764.925	735.771	Continuing	Continuing
643308: <i>B-21 Development</i>	0.000	2,305.271	2,083.351	1,761.269	0.000	1,761.269	1,334.437	777.008	66.880	0.201	0.000	8,328.417
644044: <i>B-21 Modernization</i>	0.000	260.262	646.160	1,101.408	0.000	1,101.408	956.663	900.213	698.045	735.570	Continuing	Continuing

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. The B-21 program is on track to deliver aircraft at Ellsworth AFB in 2027.

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.

B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	2,654.073	2,347.225	0.000	0.000	0.000
Current President's Budget	2,565.533	2,729.511	2,862.677	0.000	2,862.677
Total Adjustments	-88.540	382.286	2,862.677	0.000	2,862.677
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	409.246			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-88.540	-26.960			
• Other Adjustments	0.000	0.000	2,862.677	0.000	2,862.677

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0604015F I Long Range Strike - Bomber	
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. FY 2025 budget request decreased by \$88.54 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR). FY 2026 net increase of \$382.286 million is due to an increase of \$409.246 million for an approved transfer from B-21 Procurement funding and a decrease of \$26.960 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR). The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.		

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
643308: B-21 Development	0.000	2,305.271	2,083.351	1,761.269	0.000	1,761.269	1,334.437	777.008	66.880	0.201	0.000	8,328.417
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.

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Long Range Strike Bomber (B-21) Development	2,305.271	2,083.351	1,761.269	0.000	1,761.269
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 2026 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 2027 Base 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 2027 OOC Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604015F / <i>Long Range Strike - Bomber</i>	Project (Number/Name) 643308 / <i>B-21 Development</i>	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
NA					
<i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> FY27 funding will be a decrease of \$322.082M. This decrease in funding is primarily due to the continued transition from EMD to Production.					
Accomplishments/Planned Programs Subtotals	2,305.271	2,083.351	1,761.269	0.000	1,761.269

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

<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• MILCON PE 0604015: <i>Long Range Strike Bomber</i>	222.755	662.222	355.000	-	355.000	502.000	401.902	333.800	363.375	Continuing	Continuing
• APAF 01 B02100: <i>B-21 Raider</i>	2,565.468	2,832.016	3,236.282	-	3,236.282	5,682.789	7,222.806	9,464.710	10,352.143	Continuing	Continuing
• OPAF 03 834130: <i>Air Force Physical Security System</i>	6.206	2.991	9.771	-	9.771	7.048	22.500	0.000	0.000	0.000	48.516

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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2,305.271		2,083.351		1,761.269		-		1,761.269	Continuing	Continuing	-
Subtotal			-	2,305.271		2,083.351		1,761.269		-		1,761.269	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2,305.271		2,083.351		1,761.269		-		1,761.269	Continuing	Continuing	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 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2025	4	2031

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 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
644044: B-21 Modernization	0.000	260.262	646.160	1,101.408	0.000	1,101.408	956.663	900.213	698.045	735.570	Continuing	Continuing
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. Modernization BPAC for tracking separately from EMD funding line was created in 2024.

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

	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Long Range Strike Bomber (B-21) Modernization	260.262	646.160	1,101.408	-	1,101.408
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 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, weapon integration/ certification, air vehicle provisioning for future capabilities, sensors, and payloads.					
FY 2027 Base Plans: FY 2027 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, weapons integration/ certification, air vehicle provisioning for future capabilities, sensors, and payloads.					
FY 2026 to FY 2027 Increase/Decrease Statement:					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force				Date: April 2026	
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604015F / <i>Long Range Strike - Bomber</i>		Project (Number/Name) 644044 / <i>B-21 Modernization</i>	
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026
FY 2027 increased from FY 2026 by \$455.248M in support of the program's increasing design scope of modernization activities that began in 2024; to include enhanced technologies, nuclear certification as well as infrastructure transitioning from baseline to modernization.				FY 2027 Base	FY 2027 OOC
				FY 2027 Total	
Accomplishments/Planned Programs Subtotals				260.262	646.160
				1,101.408	-
				1,101.408	
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	260.262		646.160		1,101.408		-		1,101.408	Continuing	Continuing	-
Subtotal			-	260.262		646.160		1,101.408		-		1,101.408	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	260.262		646.160		1,101.408		-		1,101.408	Continuing	Continuing	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 2027 Air Force

Date: April 2026

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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	2025	4	2031

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 2027 Air Force	Date: April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	72.448	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	72.448
640862: <i>Rapid Defense Experimentation Reserve</i>	0.000	72.448	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	72.448
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2025, Project 640862 was completed.

A. Mission Description and Budget Item Justification

No funds requested in the FY 2027 President's Budget.

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, 0605898, 0606398F.

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.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>
Previous President's Budget	75.051	0.000	0.000	0.000	0.000
Current President's Budget	72.448	0.000	0.000	0.000	0.000
Total Adjustments	-2.603	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	-2.603	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Change Summary Explanation

In FY2025, Project 640862 was completed.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0604025F I Rapid Defense Experimentation Reserve (RDER)			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: RDT&E Program Wide Activities Description: USAF RDER efforts supporting joint experimentation FY 2026 Plans: No efforts planned in FY 2026. FY 2027 Plans: No efforts planned in FY 2027. FY 2026 to FY 2027 Increase/Decrease Statement: Not Applicable.		72.448	0.000	0.000
Accomplishments/Planned Programs Subtotals		72.448	0.000	0.000
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy various				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.000		-		-		-		-	0.000	1.000	-
Angry Badger - PACAF	Various	Not specified. : TBD	-	1.077		-		-		-		-	Continuing	Continuing	-
DEFEND Experimentation	Various	Not specified. : TBD	-	4.730		-		-		-		-	0.000	4.730	-
Classified effort	Various	Not specified. : TBD	-	13.514		-		-		-		-	0.000	13.514	-
Classified effort-other	Various	Not specified. : TBD	-	52.127		-		-		-		-	0.000	52.127	-
Subtotal			-	72.448		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025	FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	72.448		-		-		-		-	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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>	

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 2027 Air Force										Date: April 2026		
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 0604032F I Directed Energy Prototyping							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	1.312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.312
640200: DE Prototyping	0.000	1.312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.312
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 2027 Air Force				Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		1.312	0.000	0.000	0.000	0.000	
Current President's Budget		1.312	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							
The FY 2026 decrease of \$1.312 million is due to reprioritization of efforts.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: Directed Energy Capabilities					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 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 2026 to FY 2027 Increase/Decrease Statement:							
Not Applicable							
Accomplishments/Planned Programs Subtotals					1.312	0.000	-
D. Other Program Funding Summary (\$ in Millions)							
N/A							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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>I Directed Energy Prototyping</i>
D. Other Program Funding Summary (\$ in Millions) 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.312	Sep 2025	-		-		-		-	Continuing	Continuing	-
Direct Cite Authority	TBD	AFLCMC : Various	-	0.000	Oct 2024	-		-		-		-	Continuing	Continuing	-
Subtotal			-	1.312		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.312		-		-		-		-	Continuing	Continuing	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 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0604032F / Directed Energy Prototyping					640200 / DE Prototyping			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 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 2027 Air Force			Date: April 2026	
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604032F / Directed Energy Prototyping		Project (Number/Name) 640200 / DE Prototyping

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
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.	1	2025	4	2025
Directed Energy program shutdown				
Close out of any remaining contracts and agreements to shutdown the program.	1	2025	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 2027 Air Force **Date:** April 2026

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 0604033F / <i>Hypersonics Prototyping</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	345.769	0.000	345.769	548.575	620.454	242.643	0.000	0.000	1,757.441
643882: <i>Air-Launched Rapid Response Weapon (ARRW)</i>	0.000	0.000	0.000	345.769	0.000	345.769	548.575	620.454	242.643	0.000	0.000	1,757.441

Note

This program, BA 4, PE 0604033F, project 643882, Air Launched Rapid Response Weapon (ARRW) Increment (INC) 2, is a new start.

This program, BA 4, PE 604033F, project TBD, Air-Launched Ballistic Missile (ALBM).

The ARRW PE incorporates a new ALBM program.

A. Mission Description and Budget Item Justification

The Hypersonics Prototyping (Air-launched Rapid Response Weapon) program enables development, integration and demonstration of hypersonic technologies and other key technologies in an operational or operational-like environment to capitalize on successful hypersonic research and development efforts with high warfighter priority. Integration and demonstration of developed technologies and prototype technologies into a hypersonic system allows leadership to make informed strategy and resource decisions for future programs based on the results of such hypersonic demonstrations.

Hypersonic Prototyping enables 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) accelerates the integration of technologies into a hypersonic system and the transfer of new hypersonic technologies enabling a responsive, long range strike capability. Throughout this program element is hypersonic development, which incubates and matures 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. In addition, the program adapts and integrates proven technologies into a hypersonic vehicle improving and/or adding additional capabilities for the warfighter.

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

The FY 2026 spend plan amount for RDT&E includes 0 thousand of discretionary and 133,334 thousand of mandatory (reconciliation) for a total of 133,334 thousand.

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 elements 0605829F, 0605831F, 0605833F, and 0605898F.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 0604033F <i>I Hypersonics Prototyping</i>

The Air-Launched Ballistic Missile (ALBM) Integrates Air Force and other system technologies to develop, design, test, manufacture, and field an air-launched, long-range strike capability that complements existing hypersonic weapons. ALBM will mature existing hypersonic weapon technologies to rapidly test, which will inform future production decisions early in the acquisition lifecycle.

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	345.769	0.000	345.769
Total Adjustments	0.000	0.000	345.769	0.000	345.769
• 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	345.769	0.000	345.769

Change Summary Explanation

The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
643882: Air-Launched Rapid Response Weapon (ARRW)	0.000	0.000	0.000	345.769	0.000	345.769	548.575	620.454	242.643	0.000	0.000	1,757.441
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0604033F, project 643882, Air Launched Rapid Response Weapon (ARRW) Increment (INC) 2, is a new start.

This program, BA 4, PE 0604033F, project TBD, Air-Launched Ballistic Missile (ALBM).

FY27 plans to continue post-MTA technology efforts such as but not limited to integrating pre-planned product improvements, design, trade studies, hardware upgrades, and testing.

A. Mission Description and Budget Item Justification

The Air-Launched Rapid Response Weapon (ARRW) project integrated Air Force and DARPA enabled system technologies enabled 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, mature, and integrate 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. Additionally, future developments will look to mature and integrate existing technologies to improve performance and capability of hypersonic weapons.

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 was added to PE 0101101F.

The FY 2026 spend plan amount for RDT&E includes 0 thousand of discretionary and 133,334 thousand of mandatory (reconciliation) for a total of 133,334 thousand.

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 elements 0605829F, 0605831F, 0605833F, and 0605898F.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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)		
The Air-Launched Ballistic Missile (ALBM) project integrates Air Force and other system technologies to develop, design, test, manufacture, and field an air-launched, long-range strike capability that complements existing hypersonic weapons. ALBM will mature existing hypersonic weapon technologies to rapidly test, which will inform future production decisions early in the acquisition lifecycle.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Air Launched Rapid Response Weapon (ARRW) Increment (INC) 2 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. ARRW Inc.2 adds enhanced capability. FY 2026 Plans: No FY26 RDT&E Discretionary Funding FY 2027 Plans: FY27 plans to begin INC 2 technology efforts such as but not limited to integrating pre-planned product improvements, design, trade studies, hardware upgrades, facilitization, affordability initiatives, and testing. FY 2026 to FY 2027 Increase/Decrease Statement: FY27 \$296.262M funded to continue INC 2 tech efforts, facilitation, and affordability.		0.000	0.000	296.269
Title: ALBM Program Description: Integrates Air Force and other system technologies to develop, design, test, manufacture, and field an air-launched, long-range strike capability that complements existing hypersonic weapons. ALBM will mature existing hypersonic weapon technologies to rapidly test, which will inform future production decisions early in the acquisition lifecycle. FY 2026 Plans: No FY26 dollars FY 2027 Plans: Standup new program office and begin ALBM design activities leading to a critical design review. Begin development of test assets. FY 2026 to FY 2027 Increase/Decrease Statement:		-	0.000	49.500

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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)				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2025	FY 2026	FY 2027
Standup new program office and begin ALBM design activities leading to a critical design review. Begin development of test assets.												
Accomplishments/Planned Programs Subtotals										0.000	0.000	345.769
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• MPAF 02 0101101F: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon	-	362.155	452.035	-	452.035	556.265	621.094	616.036	596.636	0.000	3,204.221	
Remarks												
D. Acquisition Strategy												
FY27 plans to continue post-MTA technology efforts such as but not limited to integrating pre-planned product improvements, design, trade studies, hardware upgrades, new hardware to increase capability and testing.												
Acquisition Decision Memorandum (signed 5 Mar 2026) approved Hypersonic Air Launched Rapid Response Weapon (ARRW) Post- Middle tier Acquisition (MTA) Technology Efforts to continue Hypersonic boost glide technology developing and prototyping.												
Acquisition Decision Memorandum (signed 18 Mar 2025) approved Hypersonic Air Launched Rapid Response Weapon (ARRW) Post- Middle tier Acquisition (MTA) Technology Efforts to continue Hypersonic boost glide technology developing and prototyping.												
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 un-definitized 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Inc 2 - Contract	C/CPFF	LMCO: Various : Various	-	-		0.000		248.416	Mar 2027	-		248.416	Continuing	Continuing	-
ALBM - Contract	C/TBD	TBD : TBD	-	-		0.000		49.500	Mar 2027	-		49.500	Continuing	Continuing	-
Subtotal			-	-		0.000		297.916		-		297.916	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Direct Cite Authority Civilian Pay	Allot	Not Specified: TBD : TBD	-	-		0.000		4.000	Jan 2027	-		4.000	Continuing	Continuing	-
Subtotal			-	-		0.000		4.000		-		4.000	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		0.000		23.853	Jan 2027	-		23.853	Continuing	Continuing	-
Subtotal			-	-		0.000		23.853		-		23.853	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Various : TBD	-	-		0.000		20.000	Jan 2027	-		20.000	Continuing	Continuing	-
Subtotal			-	-		0.000		20.000		-		20.000	Continuing	Continuing	N/A
Remarks															
Included A&AS support requirements plus TDY, and office supplies.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force										Date: April 2026							
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)								
					Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals					-	-		0.000		345.769		-		345.769	Continuing	Continuing	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 2027 Air Force										Date: April 2026																			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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) INC 2																												
ARRW INC 2 - Contract																												
ALBM																												
ALBM - Contract																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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) INC 2				
ARRW INC 2 - Contract	2	2027	4	2030
ALBM				
ALBM - Contract	3	2027	4	2030

Note
FY27 plans to continue post-MTA technology efforts such as but not limited to integrating pre-planned product improvements, design, trade studies, hardware upgrades and testing.

FY27 ARRW PE also incorporates an ALBM Program

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 0604041F <i>I Family of Affordable Mass Missiles (FAMM)</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	525.223	0.000	525.223	724.833	1,009.225	798.004	851.926	Continuing	Continuing
640411: <i>Franklin Affordable Mass Missile (FAMM)</i>	0.000	0.000	0.000	525.223	0.000	525.223	724.833	1,009.225	798.004	851.926	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0604041F, project 640411, FAMM Development, is a new start.
This program, BA 4, PE 0604041F, project 640411, Air Force Long Range Missile, is a new start.

A. Mission Description and Budget Item Justification

The Adaptive Weapons program element (0604041F) modernizes the weapons acquisition process through the Modular Weapon Series (M-Series) paradigm using open and common hardware and software interface standards to increase acquisition agility, lower costs of weapon development and modification, and be rapidly upgradeable to respond to adversary actions. This program element will be utilized for additional classes of Adaptive Weapons as new Budget Program Activity Codes are incorporated into the PE.

The first Adaptive Weapons class is the Family of Affordable Mass Missiles (FAMM)(BPAC 640411) which provides a low-cost, standoff cruise missile designed to provide long range affordable mass to overwhelm enemy defenses and deplete adversary defensive weapons inventories, operating as a complement to more complex and more expensive weapons. The first variant of FAMM missiles is a palletized baseline configuration and will be followed by a lugged variant both with weapon-weapon communications. Future increments will be defined based upon user demand and are likely to include a Beyond Line-of-Sight (BLOS), Extended Range (ER), Long-Range Kill Chain (LRKC) communications, different payloads, sub-systems or employment options, etc. This program element will be utilized to further execute component level development for modular implementation into future increments of FAMM.

Increment 1 key warfighter requirements are 500nm+ range, Networked Collaborative Autonomous (NCA) capabilities, and palletized employment from cargo aircraft to provide capability to employ large swarms of missiles against slow moving maritime targets. Threshold launch platforms are the C-130 and C-17. Future employment methods may include launch from fighter/bomber racks, ground or surface launched. FAMM activities will include integration with the various employment platforms, to include risk-reduction, development, integration and testing if operationally available systems are not available.

The Air Force Long Range Missile program develops a next-generation, air-launched precision strike weapon to provide standoff capability against high-value, time-sensitive targets. It leverages Government Reference Architectures (GRA), Weapons Open System Architecture (WOSA), Digital Infrastructure Products (DIPs), and Collaborative Test Groups (CTGs) to enable rapid upgrades and enhance lethality in contested environments. This approach ensures modular, scalable design for integration on bombers and fighters, with a focus on digital engineering and open architecture to counter evolving threats like advanced air defenses.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 0604041F I Family of Affordable Mass Missiles (FAMM)				
Allows for Open, Agile, and Digital acquisition for any new subsystem hardware or software development. Integrates the system in weapon portfolio trade space studies by conducting trade studies, system engineering, test activities, and system modeling and simulation. Builds and refines a mission modeling framework by incorporating higher-fidelity weapon system designs and updates to the threat landscape to conduct ongoing assessment of weapon system performance against the authoritative threat. 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 the Department of War (DoW) and the Department of the Air Force (DAF) enterprise IT solutions.						
This program element included all necessary 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, and 0605898F.						
The FY 2027 request for FAMM includes \$525,223 thousand, of discretionary funding and \$51,000 thousand of mandatory funding for a total of \$576,223. The FY 2027 mandatory funds continue efforts from FY 2026 to complete test & evaluation activities resulting in a fieldable baseline weapon system configuration, in addition to beginning development & integration of Increment 1 (BLOS) capability.						
The FY 2026 spend plan amount for the Family of Affordable Mass Missiles (FAMM) includes 0 discretionary and \$285,000 thousand of mandatory (reconciliation) for a total of \$285,000 thousand.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	0.000	525.223	0.000	525.223
Total Adjustments		0.000	0.000	525.223	0.000	525.223
• 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	525.223	0.000	525.223

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026			
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 0604041F I Family of Affordable Mass Missiles (FAMM)				
<u>Change Summary Explanation</u> The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: FAMM Development Description: This effort includes primary hardware and software development activities for the FAMM weapon system. Development and maturation of Weapons Government Reference Architecture (GRA) digital Implementation Model that provides the digital artifacts for the weapon. Vendor development of Weapon Open System Architecture (WOSA) and digital Domain Implementation Packages (DIPs) for common hardware and software interfaces and participation in Collaboration Topic Groups (CTGs). Effort also includes development, qualification, and integration of new low-cost and scaleable manufacturing sub-systems (engines, navigation suites, datalinks, sensors/seekers, ordnance packages, etc.) and future payloads. FY 2026 Plans: N/A FY 2027 Base Plans: Complete FAMM Variant 1 development activities up through a Production Readiness Review, resulting in a low-cost cruise missile capability that can be manufactured at scale. Begin development activities for FAMM Variant 2 which will enhance the weapon system with a Beyond Line-of-Sight (BLOS) capability. Continue development and integration of modular sub-systems (engines, navigation suites, datalinks, sensors/seekers, etc) to further enhance the ability of the FAMM weapon system to adapt to multiple scenarios. FY 2026 to FY 2027 Increase/Decrease Statement: Increase for accomplishment of FAMM Variant 2 efforts		0.000	0.000	192.123	-	192.123
Title: Test and Evaluation Description: This effort includes Government and Contractor Developmental/Operational Test and Evaluation (DT/OT) activities. FY 2026 Plans: N/A FY 2027 Base Plans:		0.000	0.000	28.900	-	28.900

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026			
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 0604041F I Family of Affordable Mass Missiles (FAMM)				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Continue developmental and qualification testing activities in support of completing the FAMM Variant 1 development activities. Complete Test Asset purchase to support Operational Test Demonstration exercise of the palletized employment capability in an operational representative scenario. FY 2026 to FY 2027 Increase/Decrease Statement: Increase from FY26 to FY27 for increase developmental and qualification testing						
Title: Platform Integration Description: This effort includes Government and Contractor integration activities of the low-cost cruise missile capability onto various platforms and across multiple forms of employment. The minimum viable capability required of the FAMM Variant 1 weapon system is to achieve palletized employment on Threshold platforms (C-130 and C-17). Future platform integration activities may include lug launched employment off of fighter/ bomber racks, ground or surface launched. FY 2026 Plans: N/A FY 2027 Base Plans: Continue platform integration activities of the low-cost cruise missile capability in various methods of employment (palletized, lugged, etc). The palletized employment method utilizing the Rapid Dragon (DAS 3.0) palletized employment system supports the FAMM Variant 1 minimum viable capability. FY 2026 to FY 2027 Increase/Decrease Statement: Increase due to efforts for platform integration		0.000	0.000	54.200	-	54.200
Title: Air Force Long Range Missile Description: The Air Force Long Range Missile program develops a next-generation, air-launched precision strike weapon to provide standoff capability against high-value, time-sensitive targets. It leverages Government Reference Architectures (GRA), Weapons Open System Architecture (WOSA), Digital Infrastructure Products (DIPs), and Collaborative Test Groups (CTGs) to enable rapid upgrades and enhance lethality in contested environments. This approach ensures modular, scalable design for integration on bombers and fighters, with a focus on digital engineering and open architecture to counter evolving threats like advanced air defenses. FY 2026 Plans:		0.000	0.000	250.000	0.000	250.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 0604041F I Family of Affordable Mass Missiles (FAMM)				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
N/A						
FY 2027 Base Plans: Initial activities to implement a proven business and technological approach with 4 vendors. Development of sub-systems level hardware and software to allow rapid incorporation of key technologies, such as software-defined radio, seeker, and flight safety systems (FTS).						
FY 2027 OOC Plans: N/A						
FY 2026 to FY 2027 Increase/Decrease Statement: This is a New Start.						
Accomplishments/Planned Programs Subtotals		0.000	0.000	525.223	0.000	525.223
D. Other Program Funding Summary (\$ in Millions)						
N/A						
Remarks						
Due to the level of classification of FAMM efforts, additional details will be provided upon request through the appropriate forum.						
E. Acquisition Strategy						
FAMM is one of the initial Modular Weapon Series (M-Series) family of weapons designed with open and common hardware and software interface standards to increase acquisition agility, lower costs of weapon development and modification, and be rapidly upgradeable to respond to adversary actions. FAMM weapons are designed for affordable manufacturability, with innovative concepts to support scalability to high production rates. Example manufacturing concepts are distributed/ franchised production across suppliers/nodes (to include coalition partners), use of commonly available manufacturing equipment and processes to support access to more production facilities, and Industry 4.0 techniques such as additive manufacturing and automation.						
FAMM will execute an incremental approach to development, integration, testing, production and fielding that ensures each increment proves out feasibility, sets the conditions for the next increment, and includes on-ramps to leverage the latest commercial innovations. By design, the frequent iterative increments serve as checkpoints to evaluate investment, technology risk, affordability and manufacturability. The resulting FAMM development and production pipeline will be cost- effective, scalable, and responsive to a range of strategic scenarios.						

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604041F / <i>Family of Affordable Mass Missiles (FAMM)</i>						Project (Number/Name) 640411 / <i>Franklin Affordable Mass Missile (FAMM)</i>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FAMM Development	C/FP	Various : TBD	-	-		-		183.023	Jan 2027	-		183.023	Continuing	Continuing	-
Platform Integration	Various	Various : TBD	-	-		-		54.200	Mar 2027	-		54.200	Continuing	Continuing	-
Air Force Long Range Missile	C/TBD	Various : TBD	-	-		-		250.000	Dec 2026	-		250.000	Continuing	Continuing	-
Subtotal			-	-		-		487.223		-		487.223	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Test	C/FP	Various : TBD	-	-		-		9.900	Dec 2026	-		9.900	Continuing	Continuing	-
Government Test	Various	Various : TBD	-	-		-		19.000	Jun 2027	-		19.000	Continuing	Continuing	-
Subtotal			-	-		-		28.900		-		28.900	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 : Eglin AFB, FL	-	-		-		9.100	Oct 2026	-		9.100	Continuing	Continuing	-
Subtotal			-	-		-		9.100		-		9.100	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		525.223		-		525.223	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604041F / Family of Affordable Mass Missiles (FAMM)				Project (Number/Name) 640411 / Franklin Affordable Mass Missile (FAMM)			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
RDT&E Schedule Details																												
FAMM Development																												
Test and Evaluation																												
Platform Integration																												
Air Force Long Range Missile																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604041F / Family of Affordable Mass Missiles (FAMM)	Project (Number/Name) 640411 / Franklin Affordable Mass Missile (FAMM)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>RDT&E Schedule Details</i>				
FAMM Development	1	2027	4	2031
Test and Evaluation	1	2027	4	2031
Platform Integration	1	2027	4	2031
Air Force Long Range Missile	1	2027	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0604060F I NORAD & USNORTHCOM (N&NC) Experimentation											
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	39.257	0.000	39.257	31.186	31.172	31.181	31.189	Continuing	Continuing
645350: <i>Experimentation</i>	0.000	0.000	0.000	39.257	0.000	39.257	31.186	31.172	31.181	31.189	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
 This program, BA 4, PE 0604060F, project 645350, N&NC Experimentation, is a new start.

A. Mission Description and Budget Item Justification

To maintain decision superiority and execute Homeland Defense (HD) missions aligned with the National Defense Strategy (NDS), the Department is modernizing existing data centers to support Artificial Intelligence (AI) capabilities. This strategy maximizes current infrastructure investments to deliver advanced data analytics and autonomous planning tools across all classification networks, actively avoiding the high costs and extended timelines associated with existing time-intensive tasks such as drafting operation plans, summarizing intelligence, and integrating cross domain data.

This approach focuses on improving on-premises infrastructure to support DoW scalable environments, data analytics, and AI tool suites to support the integration of intelligence, planning, and operations data to address immediate mission needs. For example, this capability provides analysts with instant access to AI driven dashboards and alerts that fuse sensor feeds, logistics, and mission plans to rapidly enhance border monitoring, illicit trafficking detection, and domain awareness which significantly reduces analytic workloads, accelerates operational planning, and drives decision superiority in direct support of Homeland Defense (HD) and the Unified Command Plan (UCP).

Under the Unified Command Plan, USNORTHCOM must maintain decision superiority by delivering timely, data-driven insights to protect the homeland. The current manual analytic workloads and extended planning cycles severely limit the response time to emerging threats. This AI implementation directly addresses limiting factors by streamlining analytic workloads, shrinking plan-drafting cycles, and drastically boosting real-time warning accuracy for border incursions, missile launches, and illicit trafficking. Embedding agentic AI directly into staff processes and coordination workflows accelerates situational awareness and tightens critical decision timelines, unlocking additional capacity for high-value decision 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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026			
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 0604060F I NORAD & USNORTHCOM (N&NC) Experimentation					
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		0.000	0.000	0.000	0.000	0.000	
Current President's Budget		0.000	0.000	39.257	0.000	39.257	
Total Adjustments		0.000	0.000	39.257	0.000	39.257	
• 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	39.257	0.000	39.257	
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: N&NC Experimentation					-	0.000	39.257
Description: Artificial Intelligence (AI) Development for Homeland Defense							
FY 2026 Plans: N/A							
FY 2027 Plans: focus on improving on-premises infrastructure to support DoW scalable environments, data analytics, and AI tool suites to support the integration of intelligence, planning, and operations data to address immediate mission needs. For example, this capability provides analysts with instant access to AI driven dashboards and alerts that fuse sensor feeds, logistics, and mission plans to rapidly enhance border monitoring, illicit trafficking detection, and domain awareness which significantly reduces analytic workloads, accelerates operational planning, and drives decision superiority in direct support of Homeland Defense (HD) and the Unified Command Plan (UCP).							
FY 2026 to FY 2027 Increase/Decrease Statement: This program, BA 4, PE 0604060F, project 645350, N&NC Experimentation, is a new start.							
Accomplishments/Planned Programs Subtotals					-	0.000	39.257
D. Other Program Funding Summary (\$ in Millions)							
N/A							
Remarks							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0604060F I NORAD & USNORTHCOM (N&NC) Experimentation
E. Acquisition Strategy N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604060F / NORAD & USNORTHCOM (N&NC) Experimentation						Project (Number/Name) 645350 / Experimentation			
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Artificial Intelligence (AI) Development for Homeland Defense	C/CPAF	Not specified. : TBD	-	-		-		39.257		-		39.257	Continuing	Continuing	-
Subtotal			-	-		-		39.257		-		39.257	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		39.257		-		39.257	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604060F / NORAD & USNORTHCOM (N&NC) Experimentation					Project (Number/Name) 645350 / Experimentation									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Artificial Intelligence (AI) Development for Homeland Defense																												
No event title.																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604060F / NORAD & USNORTHCOM (N&NC) Experimentation	Project (Number/Name) 645350 / Experimentation

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Artificial Intelligence (AI) Development for Homeland Defense				
No event title.	1	2027	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	452.800	828.075	806.142	0.000	806.142	513.991	195.531	171.080	155.031	0.000	3,122.650
644183: Hypersonic Attack Cruise Missile (HACM)	0.000	452.800	828.075	806.142	0.000	806.142	513.991	195.531	171.080	155.031	0.000	3,122.650
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 fighters and bombers that enables 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 by leveraging subsystem integration, infrastructure and testing advancements, Digital Engineering (DE), Weapons Open Systems Architecture (WOSA), Modeling and Simulation (M&S) to quickly integrate future capabilities at reduced cost.

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 Department of War (DoW) and Department of the Air Force (DAF) enterprise Information Technology (IT) solutions. Expands program office staff, facilities, and security infrastructure to support the required classification levels for this program's activities. Engages with DoW, 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.

In addition to the HACM Rapid Prototyping effort, there are other development efforts ongoing to include Functional Capability Advancement (FCA) to enhance system capability and produce additional prototypes, Manufacturing Capacity Enhancements (MCE) to make targeted investments into the industrial base towards full rate production, integration modifications, and operational suitability improvements to the weapon. Finally, FY27 will start HACM production to meet warfighter demands in short timelines.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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)				
The total cost of the HACM Middle Tier of Acquisition effort is 2,077.8 million, including RDT&E and procurement of prototype units. The HACM is fully funded across the Future Years Defense Program.						
Acquisition Agility Act Prototyping (AAA) AAA Prototyping within a POR: 0 million AAA Prototyping separate from a POR: 1,841.7 million						
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, and 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.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		466.729	802.810	0.000	0.000	0.000
Current President's Budget		452.800	828.075	806.142	0.000	806.142
Total Adjustments		-13.929	25.265	806.142	0.000	806.142
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	35.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-13.929	-9.735			
• Other Adjustments		0.000	0.000	806.142	0.000	806.142
Change Summary Explanation						
FY 2027: The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						
In FY 2026, funding increased \$35 million from Congressional Add for "Program Increase."						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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)		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: HACM Development Description: Encompasses the development effort on the program, outside of testing, and program support, to include enhancing capabilities, additional prototype deliveries, industrial base investments towards full-rate production, and operational suitability improvements. FY 2026 Plans: This effort continued model-based system engineering activities in the Digital Engineering (DE) ecosystem. Continued efforts included 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. Continued work on product improvement for integration into design, development, and production. FY 2027 Plans: Purchase hardware and validate the HACM design to continue ground and flight test activities. Continue to purchase long-lead flight test asset hardware and make investment in manufacturing readiness and operational suitability improvements. FY 2026 to FY 2027 Increase/Decrease Statement: The decrease of \$46.879 million is due to the program closing critical design activities.		425.983	764.099	717.220
Title: Integration, Qualification, and Test Description: 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. FY 2026 Plans: Effort conducted additional subsystem qualification testing and integration, assembly, test, and checkout of the All-Up Round system. Efforts included initial flight testing of HACM prototypes and other risk data. FY 2027 Plans: Effort will continue subsystem qualification testing and the integration, assembly, test, and checkout of the All-Up Round system. Efforts will also include flight testing of HACM prototypes and other risk data. FY 2026 to FY 2027 Increase/Decrease Statement: The increase of \$24.946M is due to the program adding integration and test activities as well as the execution of All-Up-Round flight verification tests.		26.817	63.976	88.922
Accomplishments/Planned Programs Subtotals		452.800	828.075	806.142

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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)	
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 flight 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. Starts a production program in FY27 to meet warfighter desired quantities in relatively short timelines. The program continues to make targeted investments in Manufacturing Capacity Enhancements (MCE). These investments ensure the industrial base can handle a ramp to full rate production that supports warfighter needs. Investments began in advance of the production program to prevent significant delays in delivering assets to the field. The program will make design changes to improve the operational suitability of the weapon.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force

Date: April 2026

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)

Product Development (\$ in Millions)

				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 and pre-planned product improvement	C/CPFF	Raytheon: Tucson, AZ : TBD	-	305.137	Dec 2024	432.152	Dec 2025	263.315	Dec 2026	-		263.315	Continuing	Continuing	-
Functional Capability Advancement (FCA)	C/CPFF	Raytheon: Tucson, AZ : TBD	-	23.260	Dec 2024	142.400	Dec 2025	148.700	Dec 2026	-		148.700	Continuing	Continuing	-
Facilitization / Manufacturing Capacity Enhancements (MCE)	C/Various	Multiple: TBD: Various : TBD	-	61.870	Sep 2025	143.588	Sep 2026	272.600	Sep 2027	-		272.600	Continuing	Continuing	-
Subtotal			-	390.267		718.140		684.615		-		684.615	Continuing	Continuing	N/A

Support (\$ in Millions)

				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	20.421	Dec 2024	28.469	Dec 2025	17.413	Dec 2026	-		17.413	Continuing	Continuing	-
Direct Cite Authority Civilian Pay	Allot	Not specified: TBD : TBD	-	10.717	Oct 2024	12.456	Oct 2025	14.099	Oct 2026	-		14.099	Continuing	Continuing	-
Subtotal			-	31.138		40.925		31.512		-		31.512	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)

				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	26.817	Dec 2024	63.976	Dec 2025	88.922	Dec 2026	-		88.922	Continuing	Continuing	-
Subtotal			-	26.817		63.976		88.922		-		88.922	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.578	Oct 2024	5.034	Oct 2025	1.093	Oct 2026	-		1.093	Continuing	Continuing	-
Subtotal			-	4.578		5.034		1.093		-		1.093	Continuing	Continuing	N/A
Remarks Includes A&AS support, Travel, and GPC requirements.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	452.800		828.075		806.142		-		806.142	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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)																												
Manufacturing Capacity Enhancements (MCE)																												
Follow-On Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2025	4	2027
Integration, Qualification, and Test	1	2025	4	2027
Functional Capability Advancement (FCA)	1	2025	1	2029
Manufacturing Capacity Enhancements (MCE)	1	2025	4	2028
Follow-On Development	1	2028	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0604257F I Advanced Technology and Sensors							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	15.865	40.779	38.756	0.000	38.756	10.700	8.700	8.900	8.600	Continuing	Continuing
642001: Next Gen Sensors Tech Maturation/Risk Reduction	0.000	8.145	29.924	38.756	0.000	38.756	10.700	8.700	8.900	8.600	Continuing	Continuing
644818: Imaging and Targeting Support	0.000	7.720	10.855	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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). These activities support crewed and uncrewed airborne reconnaissance platforms, autonomous collaborative platforms, Collaborative Combat Aircraft (CCA), and other Air Force platforms (OAFPs) whose capabilities are protected at a higher classification. 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 lower Technology Readiness Level (TRL) technologies to fill Geospatial Intelligence (GEOINT) capability gaps to support Combatant Command (CCMD) plans and the 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 project is a platform-agile suite of sensor and software development and demonstration technologies designed to maximize 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. NGS-RR uses an open architecture system design that enables rapid third-party software and line replaceable unit insertion/replacement. NGS-RR implements foundational sensor development technologies including the Multi-int Environment Demonstrator for Unimpeded Sensemaking and Autonomy (MEDUSA) flight demonstration platform, Model-Based Systems Engineering (MBSE), AI-based Utility for Robust Object Recognition Architecture (AURORA) software environment and repository, and the web-based digital engineering catalog Whole-system Analysis & Simulation Portal (WASP).

Also funded under the NGS-RR project is the Resolute Sentry effort. 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 project 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 transition to ARS PE 0305206F in FY 2028.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 project matures low TRL sensors and processing capabilities to rapidly fill current GEOINT sensing capability gaps. To ensure alignment with congressional intent, urgent CCMD requirements, and departmental priorities, the Air Force 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 efforts 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 included all necessary 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, and 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		15.865	40.779	0.000	0.000	0.000
Current President's Budget		15.865	40.779	38.756	0.000	38.756
Total Adjustments		0.000	0.000	38.756	0.000	38.756
• 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	38.756	0.000	38.756
Change Summary Explanation						
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
642001: Next Gen Sensors Tech Maturation/Risk Reduction	0.000	8.145	29.924	38.756	0.000	38.756	10.700	8.700	8.900	8.600	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The NGS-RR project is a platform-agile suite of sensor and software development and demonstration technologies designed to maximize 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 project is an open architecture 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, and the AURORA software environment and repository. NGS-RR incorporates all of the metrics learned through the flight demonstrations into the Whole-system Analysis & Simulation Portal (WASP), a web-based digital engineering catalog and analysis tool launching on JWICS in FY26. In FY 2027, NGS-RR will continue flight testing maturing ATRs and fully integrated podded payloads, integration of maturation of NAVAIR algorithms, 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 project, Airborne SIGINT Enterprise PE (0304260F), and Airborne Reconnaissance Systems (ARS) PE (0305296F).

Additionally, Resolute Sentry transitioned 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 effort 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 ATS from FY 2026 to FY 2027, then will transition to ARS PE (0305206F) in FY 2028.

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

	FY 2025	FY 2026	FY 2027
Title: Next Gen Sensors Tech Maturation/Risk Reduction	8.145	12.000	15.000
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 operate. This effort will also increase interoperability by developing common standards and interfaces for mission and sensor systems.			
FY 2026 Plans: - Develop modular, real-time, multi-domain battlespace awareness in highly contested environments with the following activities. - Complete transition of Birdbox. - Complete integration of NAVAIR ATRs into Birdbox.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
- Support Collaborative Teaming demonstration. - Mature existing automatic target recognition (ATS) algorithms for maritime detections and fusion. FY 2027 Plans: - Will demonstrate inoperability with Sensing for Asset Protection using Integrated Electronic Network Technology (SAPIENT), a "FIVE EYES" and NATO sense-making standard. - Will complete a hybrid transition of Birdbox with AFRL. - Will demonstrate completed integration of initial NAVAIR ATRs into Birdbox. - Will demonstrate Collaborative Teaming with Birdbox follow-on Adaptive Tactical Real-time ISR Unified framework for Mixed platforms (ATRIUM). - Will refine small Unmanned Aerial System (s-UAS) ATR training using data collections from demonstrations. - Will continue to mature existing ATRs for maritime detections and fusion. - Will flight demonstrate an AgilePod sense and sense-making solution. - Will deploy WASP into an IL-6 environment. - Will investigate and incorporate a large language model into WASP. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to increased Air Force development in Counter-Long Range Kill Chain initiatives. Additional details available at a higher classification.				
Title: Resolute Sentry 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, and 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 2026 Plans: - Transition software and digital engineering artifacts from AFRL to lifecycle appropriate environments. - Establish DevSecOps and Digital Engineering environment. - Establish government software integration lab. - Update software design materials and technical data package for threshold platform integration.		0.000	17.924	23.756

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Conduct operationally relevant flight exercise to demonstrate viability of technology. <i>FY 2027 Plans:</i> - Will continue DevSecOps and Digital Engineering environment. - Will continue operating government software integration lab. - Will continue update software design materials and technical data package for transition partners. - Will develop and deliver Minimum Viable Capability Release (MVCR). <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> N/A			
Accomplishments/Planned Programs Subtotals		8.145	29.924
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy			
NGS-RR activities will leverage parallel development activities and integrate them with a risk-informed approach to develop and demonstrate capabilities that meet military needs under operationally-relevant environments and conditions. This project has established a forum of stakeholders consisting of multiple Other Government Agencies (OGAs), end-users, and Major Commands (MAJCOMs) to ensure that the project deliverables answer identified warfighter needs and have a clear and concise technology transition path. Resolute Sentry is Software Acquisition Pathway designated project. The Minimum Viable Product (MVP) will be version 4.5 release of Resolute Sentry in Q4 FY 2026. 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 2027 Air Force												Date: April 2026			
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>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.796	Nov 2024	5.574	Nov 2025	7.151	Nov 2026	-		7.151	Continuing	Continuing	-
AURORA	Various	Various: TBD : TBD	-	0.970	Nov 2024	2.917	Nov 2025	3.910	Nov 2026	-		3.910	Continuing	Continuing	-
Whole-System Analysis & Simulation (WASP)	Various	Various: TBD : TBD	-	2.538	Nov 2024	2.614	Nov 2025	2.904	Nov 2026	-		2.904	Continuing	Continuing	-
Resolute Sentry	TBD	Various: TBD : TBD	-	-		17.924		23.756		-		23.756	Continuing	Continuing	-
Subtotal			-	7.304		29.029		37.721		-		37.721	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.841	Nov 2024	0.895	Nov 2025	1.035	Nov 2026	-		1.035	Continuing	Continuing	-
Subtotal			-	0.841		0.895		1.035		-		1.035	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	8.145		29.924		38.756		-		38.756	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026											
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							

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Digital Engineering (WASP)																												
Resolute Sentry																												
Resolute Sentry																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	2025	4	2030
AURORA	1	2025	4	2030
Digital Engineering (WASP)	1	2025	4	2030
Resolute Sentry				
Resolute Sentry	1	2026	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
644818: <i>Imaging and Targeting Support</i>	0.000	7.720	10.855	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The I&TS project matures low TRL sensors and processing capabilities to rapidly fill current GEOINT sensing capability gaps. To ensure alignment with Congressional intent, urgent 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 efforts in the execution year to expedite technical maturation and delivery to operational platforms at the speed of technology.

In FY 2025, I&TS transitioned 3 efforts (GMTI mode, AIR, RUBBER DUCKIE) to an OAFP. In FY 2026, I&TS will complete development of 2 FY 2024 efforts (BB8, Collaborative Teaming), continue development of 1 FY 2025 effort (ATRIUM) and begin 4 new efforts (TALON CEREBRAL, AIR for SAR, ABBA, and RESOLUTE MINIONS). Details of the FY 2026 efforts are available upon request at the appropriate classification levels. In FY 2027, I&TS will use remaining funds to complete all ongoing efforts.

I&TS project funds are distributed to efforts based on the development priorities established by the GCWG. The Program Office initiates efforts based on priority as Budget Authority is released in the execution year. If funding is made available, GCWG selected efforts based on the identified focus areas, transition partners, and available budget will be scheduled. These efforts will be selected in July of FY 2026.

The FY 2026 focus areas are: increase cooperative sense-making capabilities for fielded sensors to extend range, improve fidelity, reduce bandwidth, and reduce latency to end users; develop scalable, modular, meshed, and low Size, Weight, Power, and Cost (SWaP-C) sensors that meet current Department and IC interoperability standards; develop Air Moving Target Indicator (AMTI) and Maritime MTI (MMTI) capabilities with incorporated Automatic Target Recognition (ATR) and low-bandwidth data sharing through existing communication infrastructure, prioritizing group 1-3 UAS.

When required, the USAF may move funds between I&TS efforts, developing the highest priority efforts in response to urgent (e.g., JUON) and emerging (e.g., JEON) warfighter needs.

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

	FY 2025	FY 2026	FY 2027
Title: Imaging & Targeting Support (I&TS)	7.720	10.855	0.000
Description: Corporately prioritized Air Force GEOINT-focused portfolio of efforts to develop and demonstrate next generation airborne sensors and processing technologies that further the art of the possible and/or rapidly transition ISR capabilities (ex:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
radar improvement, EO/IR sensing, assisted target recognition, autonomous attritable/expendable sensing swarms, multi-INT fusion, ISR Standards, and data mitigation technologies). <i>FY 2026 Plans:</i> - Develop, modernize, and demonstrate lower TRL efforts into transition ready efforts. The following FY 2024 and FY 2025 efforts are continuing into FY 2026: - FY 2024 effort completions: Collaborative Teaming, BirdBox Resolute (BB8) . - FY 2025 effort continuations and completion: ATRIUM. - FY 2026 initiation and completion: TALON CEREBRAL, AIR for SAR, ABBA, RESOLUTE MINIONS. <i>FY 2027 Plans:</i> N/A <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding decreased due to higher Air Force Priorities.			
Accomplishments/Planned Programs Subtotals		7.720	10.855
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
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, ISR Planning and Programming Guidance (IP2G), 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. This includes 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
BirdBox Resolute (BB8)	SS/CPFF	AFRL, Multiple Vendors : Dayton, OH	-	1.300	Apr 2025	-		-		-		-	Continuing	Continuing	-
Rubber Duckie	SS/CPFF	Classified : Classified	-	0.965	Apr 2025	-		-		-		-	Continuing	Continuing	-
Collaborative Teaming	SS/CPFF	MIT LL : Boston, MA	-	3.410	Apr 2025	0.552	Nov 2025	-		-		-	Continuing	Continuing	-
ATRIUM	SS/CPFF	AFRL, Multiple Vendors : Dayton, OH	-	1.741	Apr 2025	2.200	Nov 2025	0.000	Nov 2026	-		0.000	Continuing	Continuing	-
AIR For SAR	SS/CPAF	Classified : Dayton, OH	-	-		1.300	Nov 2025	0.000	Nov 2026	-		0.000	Continuing	Continuing	-
TALON CEREBRAL	SS/CPAF	Z Advanced Computing : Potomac, MD	-	-		2.500	Nov 2025	0.000	Nov 2026	-		0.000	Continuing	Continuing	-
ABBA	SS/CPAF	AFRL, Multiple Vendors : Rome, NY	-	-		2.151	Nov 2025	0.000	Nov 2026	-		0.000	Continuing	Continuing	-
RESOLUTE MINIONS	SS/CPAF	BAE Systems : Durham, NC	-	-		1.200	Jan 2026	0.000	Jan 2027	-		0.000	Continuing	Continuing	-
New Technology Efforts Prioritized by GCWG in 4Q FY 2024	C/CPFF	Various : Various	-	-		0.000	Jan 2026	0.000	Jan 2027	-		0.000	Continuing	Continuing	-
Subtotal			-	7.416		9.903		0.000		-		0.000	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.304	May 2025	0.952	Dec 2025	0.000	Dec 2026	-		0.000	Continuing	Continuing	-
Subtotal			-	0.304		0.952		0.000		-		0.000	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	-	7.720		10.855		0.000		-		0.000	Continuing	Continuing	N/A	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
RESOLUTE MINIONS																												
GCWG Technology Efforts																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force

Date: April 2026

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)	1	2025	1	2026
Rubber Duckie	1	2025	4	2025
GMTI Mode	1	2025	4	2025
AIR	1	2025	4	2025
Collaborative Teaming	1	2025	3	2026
ATRIUM	3	2025	4	2026
TALON CEREBRAL	1	2026	4	2026
ABBA	1	2026	4	2026
AIR for SAR	1	2026	4	2026
RESOLUTE MINIONS	2	2026	4	2026
GCWG Technology Efforts	1	2025	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	1,559.133	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,559.133
646507: Survivable Airborne Operations Center (SAOC)	0.000	1,559.133	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,559.133
Quantity of RDT&E Articles	-	4	-	-	-	-	-	-	-	-		

Note

In FY 2026 PE 0604288F, Survivable Airborne Operations Center (SOAC), Project 646507, SAOC, Budget Activity 4, Advanced component development and prototypes, transferred to PE 0604288F, Survivable Airborne Operations Center (SOAC), Project 646507, SAOC, Budget Activity 5, System Development & Demonstration (SDD) to transition the SAOC program from development to demonstration.

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 War (SECWAR), 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 Air Forcer 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 Department of War (DoW) Air Force 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 included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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)				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	1,617.187	0.000	0.000	0.000	0.000	
Current President's Budget	1,559.133	0.000	0.000	0.000	0.000	
Total Adjustments	-58.054	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	-58.054	0.000				
• Other Adjustments	0.000	0.000	0.000	0.000	0.000	
Change Summary Explanation						
FY 2025 budget request decreased by \$58.054 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: SAOC				1,559.133	0.000	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 2026 Plans: NA						
FY 2027 Plans: N/A						
FY 2026 to FY 2027 Increase/Decrease Statement: N/A						
Accomplishments/Planned Programs Subtotals				1,559.133	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• MILCON 32021F: SAOC MILCON	30.000	-	-	-	-	-	-	-	-	50.100	80.100
• RDTE 07 0303001F: Family of Advanced BLoS Terminals (FAB-T)	2.607	-	-	-	-	-	-	-	-	0.000	2.607
Remarks											
E. Acquisition Strategy											
Based on the Acquisition Strategy approved by Under Secretary of War 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1,369.600	Oct 2024	-		-		-		-	0.000	1,369.600	-
Mission Systems/ Subsystems Development	C/Various	Various : TBD	-	108.600	Jan 2025	-		-		-		-	0.000	108.600	-
Subtotal			-	1,478.200		-		-		-		-	0.000	1,478.200	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	33.700	Oct 2024	-		-		-		-	0.000	33.700	-
Direct Cite Civilian Pay	TBD	Not specified. : Hanscom AFB, MA	-	4.000	Oct 2024	-		-		-		-	0.000	4.000	-
Subtotal			-	37.700		-		-		-		-	0.000	37.700	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	8.600	Oct 2024	-		-		-		-	0.000	8.600	-
Subtotal			-	8.600		-		-		-		-	0.000	8.600	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	10.700	Oct 2024	-		-		-		-	0.000	10.700	-
A&AS	C/CPFF	Various : Bedford, MA : Hanscom AFB, MA	-	15.500	Oct 2024	-		-		-		-	0.000	15.500	-
PMA - Other	Various	Various : Bedford, MA : Hanscom AFB, MA	-	8.433	Oct 2024	-		-		-		-	0.000	8.433	-
Subtotal			-	34.633		-		-		-		-	0.000	34.633	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1,559.133		-		-		-		-	0.000	1,559.133	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
EMD CDA Deliveries Complete																												
SRR/SFR																												
Preliminary Design Phase																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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				
EMD	1	2025	4	2025
EMD CDA Deliveries Complete	4	2025	4	2025
SRR/SFR	2	2025	4	2025
Preliminary Design Phase	4	2025	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	10.151	37.529	2.196	0.000	2.196	2.274	2.317	2.362	2.410	Continuing	Continuing
646003: <i>Partnership Intermediary Agreements/T3</i>	0.000	10.151	37.529	2.196	0.000	2.196	2.274	2.317	2.362	2.410	Continuing	Continuing

A. Mission Description and Budget Item Justification

Technology Transfer is a critical part of the National Defense Strategy (NDS) and Department of War (DoW) that makes the best possible use of national scientific, technical resources and information to enhance the effectiveness of DoW forces and warfighting capability systems.

The Department of the Air Force (DAF) Technology Transfer and Transition (T3) program oversees all of the DAF inventions/patents and technology transfer agreements, such as Cooperative Research and Development agreements (CRADAs), Material Transfer Agreements (MTAs), Confidential Disclosure Agreements (CDAs), etc. Over its history, Tech Transfer has provided a great return on investment (over 100 to one), as the agreements themselves do not provide DoW funding to companies/non-traditionals, but serve as a way for the DoW to partner together and with industry to achieve a common goal.

The DAF Tech Transfer & Transition Program Office manages two DoW-level Partnership Intermediaries (PIAs), TechLink & MilTech (Montana State University) and assists the Office of the Deputy Assistant Secretary for Technology, Engineering & Product Support (SAF/AQT) in the management and oversight of the 14 DAF PIAs. This program element resources the management of DoW/DAF PIAs; the development of data to support the Defense Technology Transfer Information System (DTTIS); invention disclosure & patent processing; program management activities; and support to the Air Force Research Laboratory's (AFRL) Technology Executive Officer (TEO). This program impacts virtually all technology fields, including the DoW Critical Technology Areas, and facilitates mechanisms to help achieve the operational imperatives via Tech Transfer as captured in the Annual DoW Technology Transfer Report.

In order to manage, execute, and deliver technology transfer 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, 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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026	
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 0604317F I Technology Transfer			
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	10.485	3.558	0.000	0.000	0.000
Current President's Budget	10.151	37.529	2.196	0.000	2.196
Total Adjustments	-0.334	33.971	2.196	0.000	2.196
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	34.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.334	-0.029			
• Other Adjustments	0.000	0.000	2.196	0.000	2.196
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 646003: Partnership Intermediary Agreements/T3					
Congressional Add: Program Increase - partnership intermediary program					
Congressional Add: Program Increase - Generating Rural Innovation for National Defense					
Congressional Add: Program increase - Air Force transition and experimentation					
Congressional Add: Program increase: Advanced in AI robotics innovation					
Congressional Add: Program increase: AFRL SCIF					
Congressional Add: Program increase: Space manufacturing scale-up					
Congressional Add Subtotals for Project: 646003					
Congressional Add Totals for all Projects					
Change Summary Explanation					
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>				Project (Number/Name) 646003 / <i>Partnership Intermediary Agreements/T3</i>			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
646003: <i>Partnership Intermediary Agreements/T3</i>	0.000	10.151	37.529	2.196	0.000	2.196	2.274	2.317	2.362	2.410	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Department of the Air Force (DAF) Tech Transfer & Transition Program Office Tech Transfer & Transition Program Office manages two Department of War (DoW) level Partnership Intermediaries (PIAs) (TechLink & MilTech), supports oversight of 15 DAF PIAs, and oversees all DAF inventions/patents and technology transfer agreements.

Enabled by the TechLink PIA, TechLink brokered 80% of DoW license agreements over the past five years, with 90% of them being with small businesses. TechLink has also facilitated over 2,000 DoW tech transfer agreements since 1999 and has enabled the conversion of lab inventions into realized products and services that bolster the US Defense Innovation Ecosystem.

Montana State University's MilTech has performed over 600 technology acceleration and transition projects for all DoW Services, OSW, Joint and Special Programs. Additionally, MilTech has partnered with all DoW 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.

This project funds the management of DoW/DAF 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.

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

	FY 2025	FY 2026	FY 2027
Title: Technology Transfer	3.374	3.529	2.196
Description: Enhance and expand transfer of technologies between DoW and the commercial sector.			
FY 2026 Plans:			
- Continue with expanded implementation of innovative and cost-effective approaches to accelerate the transfer and transition of technologies developed at DoW, including the development and deployment of AI tools and capability.			
- Continue evaluation of DoW inventions and intellectual property and facilitation of Tech Transfer (T2) agreements, focusing on license agreements and CRADAs around dual use technologies.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646003 / <i>Partnership Intermediary Agreements/T3</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
- 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 DoW T2 activities and expand survey and research capabilities to enable operational efficiency. FY 2027 Plans: - Continue with expanded implementation of innovative and cost-effective approaches to accelerate the transfer and transition of technologies developed at DoW, including the development and deployment of AI tools and capability. - Continue evaluation of DoW 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. - Stop training and education efforts of new stakeholder and topic-based training modules. - Stop recurring assessments of the economic and warfighter impacts of DoW T2 activities. FY 2026 to FY 2027 Increase/Decrease Statement: In FY 2027, the budget decreased by \$1.333 million, stopping training and education and impact analysis efforts. This reduction reflects programmatic adjustments to the DAF Science and Technology portfolio for strategic realignment to optimize core research areas and improve resource efficiency.			
Accomplishments/Planned Programs Subtotals		3.374	3.529
		FY 2025	FY 2026
Congressional Add: Program Increase - partnership intermediary program		1.936	0.000
FY 2025 Accomplishments: Conducted Congressionally directed efforts.			
FY 2026 Plans: Not applicable			
Congressional Add: Program Increase - Generating Rural Innovation for National Defense		4.841	10.000
FY 2025 Accomplishments: Conducted Congressionally directed efforts.			
FY 2026 Plans: Conducted Congressionally directed efforts.			
Congressional Add: Program increase - Air Force transition and experimentation		0.000	10.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646003 / <i>Partnership Intermediary Agreements/T3</i>

	FY 2025	FY 2026
FY 2025 Accomplishments: not applicable		
FY 2026 Plans: Conducted Congressionally directed efforts.		
Congressional Add: Program increase: Advanced in AI robotics innovation	0.000	3.000
FY 2025 Accomplishments: Not applicable		
FY 2026 Plans: Conducted Congressionally directed efforts.		
Congressional Add: Program increase: AFRL SCIF	0.000	5.000
FY 2025 Accomplishments: Not applicable		
FY 2026 Plans: Conducted Congressionally directed efforts.		
Congressional Add: Program increase: Space manufacturing scale-up	0.000	6.000
FY 2025 Accomplishments: Not applicable		
FY 2026 Plans: Conducted Congressionally directed efforts.		
Congressional Adds Subtotals	6.777	34.000

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

Remarks
N/A

D. Acquisition Strategy
This effort uses a Partnership Intermediary Agreement (PIA) with Montana State University-TechLink. Through this agreement TechLink helps the Department of War 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, Ohio.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>						Project (Number/Name) 646003 / <i>Partnership Intermediary Agreements/T3</i>			
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Department of War inventions for conversion into new products and services	PO	TechLink : Bozeman, MT	-	3.374	Dec 2024	3.529	Dec 2025	2.196	Dec 2026	-		2.196	Continuing	Continuing	-
Congressional Add-partnership intermediary program	PO	APEX : Dayton, OH	-	1.936	Jan 2026	0.000		0.000		-		0.000	0.000	1.936	-
Congressional Add - Generating Rural Innovation for National Defense	PO	APEX : Dayton, OH	-	4.841	Jul 2025	10.000	Jul 2026	0.000		-		0.000	0.000	14.841	-
Congressional Add - Air Force Transition and experimentation	PO	TBD : TBD	-	0.000		10.000	Jul 2026	0.000		-		0.000	Continuing	Continuing	-
Congressional Add - Advanced in AI robotics innovation	PO	TBD : TBD	-	0.000		3.000	Jul 2026	0.000		-		0.000	Continuing	Continuing	-
Congressional Add - AFRL SCIF	PO	TBD : TBD	-	0.000		5.000	Jul 2026	0.000		-		0.000	Continuing	Continuing	-
Congressional Add - Space Manufacturing Scale-up	PO	TBD : TBD	-	0.000		6.000	Jul 2026	0.000		-		0.000	Continuing	Continuing	-
Subtotal			-	10.151		37.529		2.196		-		2.196	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	10.151		37.529		2.196		-		2.196	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>		Project (Number/Name) 646003 / <i>Partnership Intermediary Agreements/T3</i>	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646003 / <i>Partnership Intermediary Agreements/T3</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Partnership Intermediary</i>				
Tech Transfer Partnership Intermediary	1	2025	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	120.184	142.661	186.385	0.000	186.385	126.923	39.575	0.001	0.001	0.000	615.730
645341: Direct Strike Penetrator Systems	0.000	120.184	142.661	186.385	0.000	186.385	126.923	39.575	0.001	0.001	0.000	615.730
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 included all necessary 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, and 0605898F.

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 DoW and DAF enterprise IT solutions.

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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026				
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					
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 spend plan amount for RDT&E, Air Force includes \$120,184 thousand of discretionary and \$154,000 thousand of mandatory (reconciliation) for a total of \$274,184 thousand.							
FY 2025 was rescinded \$39.055 million and is not reflected in this budget documentation.							
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		139.408	144.143	0.000	0.000	0.000	
Current President's Budget		120.184	142.661	186.385	0.000	186.385	
Total Adjustments		-19.224	-1.482	186.385	0.000	186.385	
• 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		-14.999	0.000				
• SBIR/STTR Transfer		-4.225	-1.482				
• Other Adjustments		0.000	0.000	186.385	0.000	186.385	
Change Summary Explanation							
FY25 adjustments for -4.225 million Small Business Innovative Research (SBIR); -14.999 million Below Threshold Reprogramming to Aerial Targets. The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: Next Generation Penetrator					107.142	72.234	169.420
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							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force									Date: April 2026		
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 2025	FY 2026	FY 2027
lethality, accuracy, survivability, and penetration performance parameters. Culminating in delivery of prototype technical data packages for both a warhead concept and guidance system.											
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 2027 Plans: Additional funding was placed in FY 27. We will execute this funding on the NGP Phase 1B and Phase 2 efforts.											
FY 2026 to FY 2027 Increase/Decrease Statement: Additional funding was placed in FY 27 to execute the NGP Phase 1B Tail Kit and Phase 2 efforts.											
Title: Massive Ordnance Penetrator (MOP) Modification (Mod)									13.042	70.427	16.965
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 2026 Plans: Efforts to construct MS-34 Target.											
FY 2027 Plans: Supporting efforts to MS-34 execution include DTRA support, Instrumentation to capture test data, and M&S and analysis support. Additional efforts include Tail Kit OFP update and Fuze software update.											
FY 2026 to FY 2027 Increase/Decrease Statement: Decease in in 2027 funding is due to MS-34 construction efforts ramping down											
Accomplishments/Planned Programs Subtotals									120.184	142.661	186.385
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• PAAF 01 353190: Massive Ordnance Penetrator (MOP)	131.566	6.813	0.755	-	0.755	23.064	27.219	80.000	81.800	0.000	351.217
• PAAF 01 353020: General Purpose Bombs	146.042	189.097	168.469	-	168.469	177.021	149.420	196.624	200.557	0.000	1,227.230

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026	
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						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Remarks Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.											
E. Acquisition Strategy NGP is a 24-month effort that uses industry standard M&S tools to help design, develop and demonstrate a new 20K+ lb. class penetrator and new tail kit to engage HDBTs per OSW Nov 2023 digital design guidance. Prototype Air to Ground penetrator with equivalent or better MOP performance. 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.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force

Date: April 2026

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

Product Development (\$ in Millions)

				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		6.170	Mar 2027	-		6.170	Continuing	Continuing	-
Next Generation Penetrator Product Development	Various	Not specified : TBD	0.000	85.500	Aug 2025	23.296	Mar 2026	144.499	May 2027	-		144.499	0.000	253.295	-
Subtotal			0.000	87.385		23.296		150.669		-		150.669	Continuing	Continuing	N/A

Support (\$ in Millions)

				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	2.359	Oct 2024	-		-		-		-	Continuing	Continuing	-
NGP Government Support (LAP/Energetic)	MIPR	MCAAP : McAlester, OK	0.000	0.973	Mar 2025	0.000	Feb 2026	-		-		-	0.000	0.973	-
NGP DCA Civ Pay	Allot	AFLCMC/EBD : Eglin AFB, FL	0.000	0.092	Mar 2025	1.501	Mar 2026	1.501	Mar 2027	-		1.501	0.000	3.094	-
Subtotal			0.000	3.424		1.501		1.501		-		1.501	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)

				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	2.000	Apr 2026	0.200	Jun 2026	3.534	Jun 2027	-		3.534	Continuing	Continuing	-
MOP Target Construction and Instrumentation	Various	DTRA : Albuquerque, NM	0.000	7.630	Jul 2025	68.922	Mar 2026	4.000	Jun 2027	-		4.000	Continuing	Continuing	-
NGP Test & Evaluation	Various	Various : Various	0.000	10.496	Aug 2025	38.965	Apr 2026	15.000	Jun 2027	-		15.000	0.000	64.461	-
Subtotal			0.000	20.126		108.087		22.534		-		22.534	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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>					
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.527	Dec 2024	1.305	Jun 2026	3.261	Jan 2027	-		3.261	Continuing	Continuing	-
Next Generation Penetrator Program Support Costs	Various	ALFCMC/EBD : Eglin AFB, FL	0.000	8.722	Jul 2025	8.472	Dec 2025	8.420	Jan 2027	-		8.420	0.000	25.614	-
Subtotal			0.000	9.249		9.777		11.681		-		11.681	Continuing	Continuing	N/A
Remarks															
MOP Modification program support costs funding increased to support additional testing activities.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	120.184		142.661		186.385		-		186.385	Continuing	Continuing	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 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
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 2027 Air Force			Date: April 2026
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	2025	4	2029
Next Generation Penetrator Prototype Demonstration including Modeling and Simulation, Design, Product Development, and Test	3	2025	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	37.709	42.538	91.550	0.000	91.550	71.389	94.425	96.224	98.172	Continuing	Continuing
643360: Prototyping	0.000	37.709	42.538	91.550	0.000	91.550	71.389	94.425	96.224	98.172	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	1	-	-		

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 War'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, via cross-agency partnerships, 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, linear acceleration subscale tests, Davis Gun tests, 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 explore maturation of developmental hardware to achieve nuclear system "diamond stamp" quality, ensure nuclear surety standards are met, inform future capabilities, and mature aircraft interfaces including Aircraft Monitor and Control functions.

This program element included all necessary 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, and 0605898F.

The FY 2026 funding request was reduced by 14.300 million to account for the availability of prior year execution balances.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		39.079	56.926	0.000	0.000	0.000
Current President's Budget		37.709	42.538	91.550	0.000	91.550
Total Adjustments		-1.370	-14.388	91.550	0.000	91.550
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-14.300			
• 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		-1.370	-0.088			
• Other Adjustments		0.000	0.000	91.550	0.000	91.550
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
FY 2027 increased compared to FY 2026 by \$49.012 million due to additional investment in sled test construction to prepare for multiple ground tests; increased flight test preparation activities to include initial F-15 flight test events; completion of Davis Gun scaled testing; and the development of experimental impact fuze technologies to ensure proper system execution and identification of early integration opportunities.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Air-Delivered Nuclear Delivery System				37.709	42.538	91.550
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 2026 Plans:						
- Continue modeling and simulation analysis of Nuclear Explosive Package design options and validate with sled test results.						
- Continue component design and procurement of components to build Prototype Weapon Assemblies in preparation of future ground and flight tests.						
- Continue ground tests of Prototype Weapon Assemblies to include mechanical, electrical, subscale, and sled testing.						
- Continue aircraft integration required for flight testing.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
- Complete subscale component and subsystem testing. - Complete initial sled test target construction. - Commence F-15 flight testing activities. - Commence Davis Gun scaled testing. <i>FY 2027 Plans:</i> - Continue aircraft and guided tail kit integration required for flight testing. - Continue F-15 flight-testing activities, Seek Eagle approval, and initiate flight test events. - Complete Davis Gun scaled testing. - Complete modeling and simulation analysis of Nuclear Explosive Package design options. - Complete component design and procurement of components to build Prototype Weapon Assemblies in preparation of future ground and flight tests. - Complete ground tests of Prototype Weapon Assemblies to include mechanical, electrical, subscale, and sled testing. - Commence sled test target construction for additional tests. - Commence risk mitigation activities to enable prototype development and/or transition to future capabilities. - Commence development of experimental impact fuze technologies to ensure proper system execution for varying scenario target impacts and identification of early integration opportunities. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> FY 2027 increased compared to FY 2026 by \$49.012 million for the initiation of sled test construction to prepare for multiple ground tests; increased flight test preparation activities to include initial F-15 flight test events; completion of Davis Gun scaled testing; and the development of experimental impact fuze technologies to ensure proper system execution and identification of early integration opportunities.				
Accomplishments/Planned Programs Subtotals		37.709	42.538	91.550
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 project 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 to avoid				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0604336F I Nuclear Delivery Systems Prototyping	
impacting nuclear warhead Programs of Record. When completed, this project will transition into Development Engineering with the Air Force Nuclear Weapons Center and the National Nuclear Security Administration.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 : Various	-	0.248	Aug 2025	3.700	Apr 2026	1.674	Apr 2027	-		1.674	Continuing	Continuing	-
Design and Build (SNL)	MIPR	NNSA/SNL : Kirtland AFB, NM	-	18.261	Jul 2025	12.868	Mar 2026	33.261	Dec 2026	-		33.261	Continuing	Continuing	-
Design and Build (LANL)	MIPR	NNSA/LANL : Los Alamos, NM	-	8.938	Jul 2025	9.406	Mar 2026	28.783	Nov 2026	-		28.783	Continuing	Continuing	-
Fuze Development	MIPR	NNSA/SNL : Livermore, CA	-	2.600	Jul 2025	-		-		-		-	Continuing	Continuing	-
Subtotal			-	30.047		25.974		63.718		-		63.718	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 : Various	-	0.362	Aug 2025	0.400	May 2026	0.633	May 2027	-		0.633	Continuing	Continuing	-
Systems Engineering	Various	Various : Various	-	0.357	Jul 2025	0.400	Dec 2025	2.864	Dec 2026	-		2.864	Continuing	Continuing	-
Geology Studies	Various	Various : Various	-	0.316	Aug 2025	0.749	Feb 2026	0.770	Dec 2026	-		0.770	Continuing	Continuing	-
Subtotal			-	1.035		1.549		4.267		-		4.267	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 : Various	-	0.000	Sep 2025	0.515	Jun 2026	3.515	Jun 2027	-		3.515	Continuing	Continuing	-
Sled Testing	Various	Various : Various	-	0.579	Jul 2025	1.190	Dec 2025	4.178	Dec 2026	-		4.178	Continuing	Continuing	-
Test and Evaluation Support	C/CPFF	Various : Various	-	2.598	Nov 2025	5.000	Jan 2026	6.500	Nov 2026	-		6.500	Continuing	Continuing	-
Subtotal			-	3.177		6.705		14.193		-		14.193	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.800	Jul 2025	3.870	Nov 2025	3.947	Nov 2026	-		3.947	Continuing	Continuing	-
Program Management and Administration	Various	AFRL : Kirtland AFB, NM	-	0.350	Jul 2025	3.140	Dec 2025	3.628	Dec 2026	-		3.628	Continuing	Continuing	-
Scheduling/Systems Engineering Support	Various	AFRL : Kirtland AFB, NM	-	1.300	Jul 2025	1.300	Jun 2026	1.797	Nov 2026	-		1.797	Continuing	Continuing	-
Subtotal			-	3.450		8.310		9.372		-		9.372	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	37.709		42.538		91.550		-		91.550	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604336F / Nuclear Delivery Systems P rototyping		Project (Number/Name) 643360 / Prototyping	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	4	2025	3	2028
Case Design				
Test Assessed Modification	1	2026	4	2028
Prototype				
Subscale Test Assembly	4	2025	2	2027
Prototype Weapon Assembly	1	2026	4	2028
Ground Testing				
Subscale Testing	4	2025	1	2027
Full Scale Testing	2	2026	4	2028
Flight Testing: F-15				
Parametric Tests	1	2026	1	2027
Prototype Flight Test Series	4	2026	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0604343F I Advanced Tanker Systems							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	13.036	0.000	13.036	13.030	13.019	13.009	13.272	Continuing	Continuing
640013: Advanced Tanker Systems	0.000	0.000	0.000	13.036	0.000	13.036	13.030	13.019	13.009	13.272	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2027, PE 0605057F, Next Generation Air-refueling System (NGAS), Project 640010, NGAS, efforts were transferred to PE 0604343F, Advanced Tanker Systems (ATS), Project 640013, ATS, to continue developing and integrating platform-agnostic systems that comply with military open-source architecture standards, ensuring rapid adaptability and interoperability across platforms.

A. Mission Description and Budget Item Justification

Advanced Tanker Systems (ATS) is a continuation of the efforts previously started in PE 0605057F, Next Generation Air-refueling System (NGAS).

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 direct support of the National Defense Strategy's vision of 'Peace Through Strength.' The pacing challenge and the operational realities of the Indo-Pacific theater demand a paradigm shift in aerial refueling. The current tanker fleet, designed for uncontested airspace, presents a critical vulnerability. Its reliance on large, centralized basing and its significant electronic and physical signature make it a high-value target, jeopardizing the Joint Force's ability to project power and sustain high-tempo operations over vast distances. ATS directly addresses this capability gap, evolving aerial refueling from a simple logistics function into a resilient, combat-enabling capability. The FY 2024 NGAS Analysis of Alternatives (AoA) provided conclusions that tankers will need to be more survivable to operate in a contested environment.

ATS is a modernization program designed to improve the connectivity, survivability, and overall viability of the Department of War's current and future tanker fleets. The program directly addresses the challenges of operating in highly-contested, near-peer environments by ensuring the tanker fleet can effectively support the Joint Force's global reach, power projection, and persistence. ATS will focus on developing and integrating platform-agnostic systems that comply with military open-source architecture standards, ensuring rapid adaptability and interoperability across platforms.

Program activities will be executed using a modern, digital acquisition framework. This includes the extensive use of digital engineering and modeling, rapid prototyping, and iterative requirements refinement based on continuous market research and post-AoA studies. This agile approach is designed to mature and de-risk critical technologies before they are integrated, accelerating development timelines while reducing lifecycle costs.

ATS program funding provides for technology transfer, maturation, and prototyping across four main lines of effort, all of which are critical to the long-term viability of the tanker enterprise. These efforts include 1) Connectivity will ensure the tanker serves as a critical node in the Joint All-Domain Command & Control (JADC2) architecture by implementing secure, multi-level communication suites, 2) Survivability will mature advanced defensive systems and threat detection capabilities to increase the ability to operate and persist in contested airspace, 3) Autonomy will be explored to reduce crew workload and enhance mission efficiency through capabilities like

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 0604343F I Advanced Tanker Systems				
autonomous refueling. Funding provides for operational concept exploration, technology studies, industry integration assessments and strategic planning, and system architecture development, and 4) Advanced Air Refueling Systems will mature novel concepts for air refueling and explore next-generation boom designs to improve reliability and compatibility with a wide range of receiver aircraft. The technologies developed are intended for spiral integration onto the KC-135, KC-46, as well as future tanker platforms through requirements maturation.						
Program management support costs include, but are not limited to, systems engineering, contractor support services, and civilian pay. Program support cost efforts consist of, but are not limited to, contract services and government costs.						
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 included all necessary 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, and 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	0.000	13.036	0.000	13.036
Total Adjustments		0.000	0.000	13.036	0.000	13.036
• 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	13.036	0.000	13.036
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Advanced Tanker Systems (ATS) Operational Concept Refinement				0.000	0.000	7.999
Description: Operational analyses, threat studies, technology candidate assessments, and prototyping to identify operational concepts and technologies that improve the connectivity, survivability, and viability of the tanker fleet 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 and system architectures that are platform-agnostic and compliant with military open-source						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0604343F / <i>Advanced Tanker Systems</i>		
C. Accomplishments/Planned Programs (\$ in Millions) standards. In addition, technical risk reduction activities will be performed to include technology transfer, integration, and test of demonstrative prototypes. The ATS working groups will methodically assess candidate concepts using USAF directives and guidance that inform modernization decisions for the KC-135, KC-46, and future tanker platforms. Ongoing studies refine system concepts and operational architectures that may be required to inform and support future strategic choices for the tanker enterprise. FY 2026 Plans: N/A FY 2027 Plans: Market research and support requirements development, concept refinement, development planning, Modeling and Simulation, and Studies and Analysis for improved modeling environments to include survivability concepts, iterative design, engineering and integration studies for modular and integrated mission systems onto multiple legacy and future tanker development efforts. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to transfer of efforts from PE 0605057F, Next Generation Air-refueling System (NGAS), Project 640010, NGAS.		FY 2025	FY 2026	FY 2027
Title: ATS Direct Mission Support Description: Future Tanker Program Office will support developmental planning activities, market research, mission support, as well as acquisition planning and documentation activities. Manage operational analyses, threat studies and operational concepts and technologies to improve the connectivity, survivability, and viability of the tanker fleet in 2030 and beyond. FY 2026 Plans: N/A FY 2027 Plans: Direct 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 to FY 2027 Increase/Decrease Statement: Funding increased due to transfer of efforts from PE 0605057F, Next Generation Air-refueling System (NGAS), Project 640010, NGAS and ramp up of program office activities.		0.000	0.000	5.037
Accomplishments/Planned Programs Subtotals		0.000	0.000	13.036

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0604343F I Advanced Tanker Systems	
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
E. Acquisition Strategy The ATS acquisition strategy is based on a top-down capabilities development planning and oversight framework. Cross-functional teams will conduct analyses, demonstrations, and experiment to quantify the operational value of alternative concepts and technologies to provide solutions to current and future capability gaps. Additional details cannot be provided at this classification level.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604343F / Advanced Tanker Systems				Project (Number/Name) 640013 / Advanced Tanker Systems					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATS Operational Concept Refinement	Various	Not specified. : TBD	-	-		-		7.999	Jan 2027	-		7.999	Continuing	Continuing	-
Subtotal			-	-		-		7.999		-		7.999	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Civ Pay	RO	AFLCMC : WPAFB, OH : TBD	-	-		-		1.020	Oct 2026	-		1.020	Continuing	Continuing	-
ATS Direct Mission Support	Various	AFLCMC : WPAFB, OH : TBD	-	-		-		4.017	Oct 2026	-		4.017	Continuing	Continuing	-
Subtotal			-	-		-		5.037		-		5.037	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		13.036		-		13.036	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force

Date: April 2026

Appropriation/Budget Activity
3600 / 4

R-1 Program Element (Number/Name)
PE 0604343F / Advanced Tanker Systems

Project (Number/Name)
640013 / Advanced Tanker Systems

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
ATS																												
Post AoA Studies & modeling																												
Operational Concept Refinement																												
Advanced Air Refueling Systems Technology Maturation																												
Transition to ATS																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604343F / <i>Advanced Tanker Systems</i>	Project (Number/Name) 640013 / <i>Advanced Tanker Systems</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ATS				
Post AoA Studies & modeling	1	2027	1	2030
Operational Concept Refinement	1	2027	4	2031
Advanced Air Refueling Systems Technology Maturation	1	2027	4	2027
Transition to ATS	1	2028	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	44.191	45.642	44.377	0.000	44.377	43.548	51.790	51.899	52.266	Continuing	Continuing
642812: Acquisition/System Security Engineering	0.000	17.823	39.660	44.377	0.000	44.377	43.548	51.790	51.899	52.266	Continuing	Continuing
642834: Mitigations	0.000	19.368	5.982	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
642836: Mission Risk Analysis	0.000	7.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.000

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 Acquisition Executives (PAEs) 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 deterring and defending against cyber threats as vital to safeguarding the U.S. homeland and military from aggression and strategic attacks by building a resilient, survivable Joint Force in the cyber domain, which requires the Department of War 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 several system security engineering focused activities. A notable activity is to develop systems security engineering tools, techniques, and procedures, with associated training and education, to integrate cyber expertise into the acquisition workforce. This includes embedding knowledgeable personnel - aka Cyber Focus Teams - within DAF PAE Offices and PMOs, and equipping them with expertise and resources to enhance the cyber posture of DAF weapon systems. The 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 supporting 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 equip senior leaders with the most up to date knowledge of force posture and inform investment strategies. Another noteworthy activity enables the CROWS to centralize and consolidate DAF and Department of War acquisition cyber needs and conduct threat-informed weapon systems solution analysis, identify and prioritize vulnerabilities, and deliver courses of action to mature the materiel and non-materiel solutions for mitigated vulnerabilities.

In FY 2027, the entirety of project 642834, Mitigations, was transferred to project 642812, Acquisitions/System Security Engineering. This is an administrative realignment to better highlight the synergy between the two activities and does not represent an increase or decrease in priority relative to the overall program.

This program element included all necessary 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, and 0605898F.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0604414F I <i>Cyber Resiliency of Weapon Systems-ACS</i>

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 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>
Previous President's Budget	45.555	46.148	0.000	0.000	0.000
Current President's Budget	44.191	45.642	44.377	0.000	44.377
Total Adjustments	-1.364	-0.506	44.377	0.000	44.377
• 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	-1.364	-0.506			
• Other Adjustments	0.000	0.000	44.377	0.000	44.377

Change Summary Explanation

The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
642812: Acquisition/System Security Engineering	0.000	17.823	39.660	44.377	0.000	44.377	43.548	51.790	51.899	52.266	Continuing	Continuing
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 War 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 Acquisition Executive (PAE) Offices to bridge the lack of cyber acquisition expertise. 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 a DAF-unique cyber engineering benchtop facility exploring, assessing, and mitigating navigation, communication, and electronic warfare vulnerabilities. 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 program offices and industry partners to effectively implement and adapt DAF strategic cyber requirements (example: Zero Trust and Defensive Cyber Operations) to weapon systems. 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. Eighth, the Mitigations activity 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. 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.

In FY 2027, the entirety of project 642834, Mitigations, was transferred to project 642812, Acquisitions/System Security Engineering. This is an administrative realignment to better highlight the synergy between the two activities and does not represent an increase or decrease in priority relative to the overall program.

This program element included all necessary 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, and 0605898F.

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

	FY 2025	FY 2026	FY 2027
Title: Acquisition/System Security Engineering	17.823	39.660	44.377
Description: Evaluates, transitions, and applies cyber resiliency activities into policy, processes, and products to enhance weapon system cybersecurity.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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 2025	FY 2026	FY 2027
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 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 2027 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 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.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- 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. - 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. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> FY 2027 increased compared to FY 2026 by \$4.717 million due to the realignment of project 642834, Mitigations. This funding will still be used to 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.			
Accomplishments/Planned Programs Subtotals		17.823	39.660
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Oct 2024	5.500	Oct 2025	4.700	Oct 2026	-		4.700	Continuing	Continuing	-
Education and Training	Various	Various : Various	-	1.000	Oct 2024	1.250	Oct 2025	1.000	Oct 2026	-		1.000	Continuing	Continuing	-
Cyber Resiliency Technologies Development	Various	Various : Various	-	2.000	Oct 2024	7.394	Oct 2025	7.886	Oct 2026	-		7.886	Continuing	Continuing	-
Cyber Domain Exploration Facility	Various	Various : Dayton, OH	-	1.000	Dec 2024	4.500	Dec 2025	4.000	Dec 2026	-		4.000	Continuing	Continuing	-
Software Development	Various	Various : Various	-	1.000	Feb 2025	1.266	Feb 2026	1.200	Feb 2027	-		1.200	Continuing	Continuing	-
Mitigations Development	Various	Various : Various	-	-		-		4.000	Oct 2026	-		4.000	Continuing	Continuing	-
Subtotal			-	6.000		19.910		22.786		-		22.786	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.500	Jan 2025	0.550	Oct 2025	0.791		-		0.791	Continuing	Continuing	-
MITRE	Various	MITRE : Bedford, MA	-	3.823	Nov 2024	6.000	Oct 2025	8.200		-		8.200	Continuing	Continuing	-
CMU/SEI	Various	Carnegie Mellon Univ. : Pittsburgh, PA	-	1.000	Dec 2024	1.200	Oct 2025	1.100		-		1.100	Continuing	Continuing	-
Trusted System Network (TSN) Center of Excellence (COE)	Various	ARS Inc. : San Antonio, TX	-	3.500	Oct 2024	4.000	Oct 2025	3.500		-		3.500	Continuing	Continuing	-
Subtotal			-	8.823		11.750		13.591		-		13.591	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.000	Oct 2024	8.000	Oct 2025	8.000		-		8.000	Continuing	Continuing	-
Subtotal			-	3.000		8.000		8.000		-		8.000	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	17.823		39.660		44.377		-		44.377	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Prototype cyber mitigations on known cybervulnerabilities																												
Weapon System Strategies for Department of the Air Force cyber requirements																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Acquisition/System Security Engineering</i>				
Transition common cyber security environments	1	2025	4	2025
Support common cyber security environments	1	2025	4	2031
Prototype and deliver enhanced system security engineering processes and products	1	2025	4	2031
Prototype and deliver cyber security design and contractual requirements	1	2025	4	2031
Deliver acquisition cyber intel analysis products and techniques	1	2025	4	2031
Develop and provide weapon system cyber training	1	2025	4	2031
Prototype advanced cyber resiliency technology	1	2025	4	2031
Develop and transition software for digital engineering transformation	1	2025	4	2031
Prototype cyber mitigations on known cybervulnerabilities	1	2027	4	2031
Weapon System Strategies for Department of the Air Force cyber requirements	1	2027	4	2031

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
642834: Mitigations	0.000	19.368	5.982	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
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 War 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.

In FY 2027, the entirety of project 642834, Mitigations, was transferred to project 642812, Acquisitions/System Security Engineering. This is an administrative realignment to better highlight the synergy between the two activities and does not represent an increase or decrease in priority relative to the overall program.

This program element included all necessary 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, and 0605898F.

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

	FY 2025	FY 2026	FY 2027
Title: Cyber Mitigation Prototyping	19.368	5.982	0.000
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 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 2027 Plans: - Transitioning work under project 642812, Acquisition/System Security Engineering, and 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 2026 to FY 2027 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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>	
B. Accomplishments/Planned Programs (\$ in Millions) FY 2027 decreased compared to FY 2026 by \$5.982 million due to transitioning work to project 642812 which better informs program office weapon system acquisition decisions with mitigation development needs.		FY 2025	FY 2026
Accomplishments/Planned Programs Subtotals		19.368	5.982
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 2027 Air Force												Date: April 2026			
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>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.289	Jan 2025	1.000	Jan 2026	-		-		-	Continuing	Continuing	-
Material Solutions for Subsystems	Various	Various : Various	-	3.168	Dec 2024	0.500	Jan 2026	-		-		-	Continuing	Continuing	-
Non-Material Solutions	Various	Various : Various	-	2.485	Dec 2024	0.200	Jan 2026	-		-		-	Continuing	Continuing	-
Cyber Domain Exploration Facility	Various	Various : Dayton, OH	-	2.159	Dec 2024	1.082		-		-		-	Continuing	Continuing	-
Subtotal			-	12.101		2.782		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.677	Oct 2024	1.500	Oct 2025	-		-		-	Continuing	Continuing	-
Defense Technical Information Center (DTIC)	Various	DTIC : Various	-	0.240	Oct 2024	0.200	Oct 2025	-		-		-	Continuing	Continuing	-
Subtotal			-	3.917		1.700		-		-		-	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Oct 2024	1.500	Oct 2025	-		-		-	Continuing	Continuing	-
Subtotal			-	3.350		1.500		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	19.368		5.982		-		-		-	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force							Date: April 2026		
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0604414F / Cyber Resiliency of Weapon Systems-ACS		Project (Number/Name) 642834 / Mitigations			
	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Remarks									

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0604414F / Cyber Resiliency of Weapon Systems-ACS					642834 / Mitigations			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	2025	4	2026
Weapon System Strategies for Department of the Air Force cyber requirements	1	2025	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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>			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
642836: <i>Mission Risk Analysis</i>	0.000	7.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.000
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 War 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.

This program element included all necessary 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, and 0605898F.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027
Title: Cyber Mission Risk Analysis Description: Discovers, analyzes, and coordinates information sharing of mission risk and risk discovery activities for DAF weapon systems. FY 2026 Plans: - Transitioning work under project 642812, Acquisition/System Security Engineering, 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 2027 Plans: - Program 642836 will retire after FY2025	7.000	0.000	0.000
Accomplishments/Planned Programs Subtotals	7.000	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 2027 Air Force		Date: April 2026
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>
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 2027 Air Force													Date: April 2026		
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	6.100	Jan 2025	-		-		-		-	Continuing	Continuing	-
Subtotal			-	6.100		-		-		-		-	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Oct 2024	-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.900		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025	FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	7.000	-		-		-		-	Continuing	Continuing	N/A	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026			
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 2027 Air Force			Date: April 2026
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	2025	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	2025	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	12.230	17.264	57.575	0.000	57.575	68.618	92.565	132.602	172.958	Continuing	Continuing
640011: Architecture & Integration Core Ops and Gap Assessment	0.000	9.388	9.873	57.575	0.000	57.575	68.618	92.565	132.602	172.958	Continuing	Continuing
640012: Maturation and Modernization	0.000	2.842	2.869	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
646090: Hard and Deeply Buried Targets (HDBT)	0.000	0.000	4.522	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.522
Note - Program 0604609F "Requirements Analysis & Concept Maturation (RACM)" will be renamed to "Strategic Capability Integration and Maturation (SCIM)" in subsequent years to differentiate between Program 0606017F "Requirements Analysis and Maturation (RAM)" as previously requested by Congressional Professional Staff Members. This document will continue to refer to this Program as RACM for continuity. - In FY2026, funding was appropriated to Project 646090 Hard and Deeply Buried Targets (HDBT). In FY2025, work was initiated for HDBT under Project 640011. To be consistent with work accomplished already for HDBT, funding will be realigned from Project 646090 to Project 640011 in the year of execution. A. Mission Description and Budget Item Justification Capability Development activities are directed and prioritized by the Air Force's Chief Modernization Officer to be responsive to Air Force priorities and Force Design. It provides the analytic, technical, and programmatic rigor necessary to address capability gaps and opportunities to refine, mature, and prepare future programs of record, thereby prioritizing and accelerating the transition of capabilities in collaboration with operational stakeholders. The Capability Development Enterprise (CDE) is focused on maturing and transitioning high-impact warfighting capabilities aligned to Air Force Future Force Design. The Requirements Analysis & Concept Maturation (RACM) Program Element performs late-stage capability development, concept refinement, and early acquisition activities for the CDE. RACM achieves this through focus on Planning for Development, rapid experimentation/prototyping, technology maturation and risk reduction, industry planning analysis, pre-Program of Record (PoR) development, open system designs, and analytic refinement support. This includes 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 PoR establishment or integration of a new capability into an existing PoR. Additionally, 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, scalable, and supportable systems toward successful PoRs.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
RACM provides capability and requirements analysis in support of the CDE, such as Capability Based Assessments (CBA), capability gap analysis/decomposition, and other activities as needed. Stakeholder coordination as well as acquisition enterprise alignment and advocacy occur in these foundational activities, which are critical for capability advancement and transition.						
In addition to traditional hardware and software, high-impact capabilities could include autonomy and Artificial Intelligence technologies that are stand-alone or embedded into new or existing systems. They could also include broad enablers such as open architectures, digital infrastructure, test infrastructure, or simulation environments.						
Program management support costs including, but not limited to, hardware, software, travel, contractor support services, civilian pay, supplies, facilities, and infrastructure						
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 included all necessary 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, and 0605898F.						
The FY 2026 funding request was reduced by 5.259 million to account for the availability of prior year execution balances.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		12.622	22.754	0.000	0.000	0.000
Current President's Budget		12.230	17.264	57.575	0.000	57.575
Total Adjustments		-0.392	-5.490	57.575	0.000	57.575
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-5.259			
• 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		-0.392	-0.231			
• Other Adjustments		0.000	0.000	57.575	0.000	57.575

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
Change Summary Explanation FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner. FY 2027 President's Budget request increased by \$40.311M from FY 2026 to support increased USAF demand signal for High Value Airborne Asset Protection (HVAA-P) maturation, risk reduction, and Planning for Development activities.		

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640011: Architecture & Integration Core Ops and Gap Assessment	0.000	9.388	9.873	57.575	0.000	57.575	68.618	92.565	132.602	172.958	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

- Project 640011 "Architecture & Integration Core Ops and Gap Assessment" will be renamed to "Accelerating Capability Development" in subsequent years to be inclusive of activities being executed as a result of the consolidation of Project activities from Project 640012. This document will continue to refer to this Project as "Architecture & Integration Core Ops and Gap Assessment" for continuity.

A. Mission Description and Budget Item Justification

This Project performs core Planning for Development activities, maturing candidate concepts derived from USAF Force Design and Department of War (DoW) priorities to accelerate acquisition timelines, reduce technology risks, demonstrate integration, and deliver potential solutions to address warfighting needs. Key activities include Capability Based Assessments (CBA), analytic refinement studies similar to Analysis of Alternatives (AoA), and other pre-Milestone A planning to determine operational viability and prepare for transition to a Program of Record (PoR), often before a program office is established. It utilizes modern digital tools and methodologies to create a data-driven decision space for concepts not yet mature enough for formal acquisition decisions. These efforts produce technical descriptions that include open systems architectures, industrial base analysis, and initial product support plans to enable future acquisition, testing, and training. The goal is to deliver high-confidence initial designs, performance estimations, and risk identification in coordination with Department of the Air Force (DAF) priorities within a multi-level security structure. It supports the development of single-domain, multi-domain, and system-of-systems solutions. This may include developing contracting structures to foster a competitive industrial base.

This Project includes execution on a broad-scope weaponeering 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.

Program management support costs including, but not limited to, hardware, software, travel, contractor support services, civilian pay, supplies, facilities, and infrastructure.

This program element included all necessary 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, 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-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Title: Capability Development Core Ops Description: This thrust provides comprehensive Planning for Development activities to mature emerging technologies and force design concepts into executable Programs of Record (PoRs). It funds essential analytic refinement, early systems engineering, and integration efforts to refine proposed systems, which in turn inform acquisition planning, contracting strategies, and other key products. These activities support critical pre-Milestone efforts based on demand signals from the Chief Modernization Officer, Senior Acquisition Executive (SAE), or the Capability Development Executive Officer (CDEO). FY 2026 Plans: - Commence and complete the Next Generation Air Lift (NGAL) concept analysis and assessment. Delivers acquisition data and analysis to support data-driven acquisition decisions. Inform Planning for Development and prepares for MAJCOM interactions and PPBE activities required for program of record establishment. Support additional directed studies based on USAF Force Design Mission Thread priorities. - Commence endgame demonstration for High-Value Airborne Asset Protection (HVAA-P) to assess potential solutions to close near-term capability gaps, inform future acquisitions decisions and follow-on efforts, and provide a transition path for proven technologies. - Complete and provide 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. FY 2027 Plans: - Continue HVAA-P Planning for Development activities as informed by the endgame demonstration. - Commence additional Planning for Development and conduct further concept refinement activities in response to Force Design and DoW priorities. These efforts will address critical capability areas including, but not limited to, Autonomy Capabilities, Counter-Air, Persistent ISR, Strategic Airlift, and Rapid Strike, all informed by Mission Engineering Threads. This work will build the necessary evidence to support AoA Sufficiency studies at all security levels and relevant domains, delivering fully informed data to drive acquisition decisions, inform continued development planning, and prepare for MAJCOM interactions and PPBE activities required for PoR establishment. These products will support the Capability Development Enterprise with system attribute trades and open system solutions, leveraging modern digital engineering tools. Where necessary, activities will involve targeted S&T investments, risk reduction, and demonstrations to resolve technical debt, along with supporting directed studies in collaboration with the Air Force Futures and MAJCOM. FY 2026 to FY 2027 Increase/Decrease Statement:		9.388	9.873	57.575

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- FY 2027 funding increased compared to FY2026 by \$47.702 million. This increase is due to programmatic adjustments within the Capability Development portfolio, to include the consolidation of Projects 640011 and 640012 as well as a heavy USAF demand signal for HVAA-P maturation, risk reduction, and Planning for Development activities. - All associated FY 2027 plans and activities in the "Capability Development System Attribute Definition and Acquisition Planning" thrust and Project 640012 have been consolidated into the 'Capability Development Core Ops' thrust under a single Project. This realignment prevents the duplication of work between the two areas and ensures all activities are properly aligned within a single, unified capability development framework.			
Title: Capability Development System Attribute Definition and Acquisition Planning Description: This thrust area has been eliminated to streamline efforts and improve efficiency. It previously focused specifically on the development of acquisition plans, including contracting strategies, to support executable PoRs. These activities are now executed from the 'Capability Development Core Ops' thrust. This realignment removes the duplication of work between the two areas and ensures all activities are properly aligned within a single, unified capability development framework. FY 2026 Plans: - N/A. FY 2027 Plans: - N/A. FY 2026 to FY 2027 Increase/Decrease Statement: - No changes		0.000	0.000
Accomplishments/Planned Programs Subtotals		9.388	9.873
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Acquisition and contracting strategies will be customized for each Capability Development Core Ops, ensuring alignment with specific Air Force priorities.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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					
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.599	Jul 2025	3.273	Mar 2026	10.500	Apr 2027	-		10.500	Continuing	Continuing	-
Subtotal			-	4.599		3.273		10.500		-		10.500	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.789	Jul 2025	6.600	Nov 2025	47.075	Jun 2027	-		47.075	Continuing	Continuing	-
Subtotal			-	4.789		6.600		47.075		-		47.075	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.388		9.873		57.575		-		57.575	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
HVAA-P																												
HVAA-P																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Capability Development Core Ops				
Analysis of Alternatives	3	2025	4	2031
HVAA-P				
HVAA-P	3	2026	4	2031

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640012: Maturation and Modernization	0.000	2.842	2.869	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

- FY 2025 and FY 2026: In the year of execution, realigned funding between Project 640012 to Project 640011.
- FY 2027: Consolidated Projects within Program 0604609F using a Zero-Base Reprogramming action, transferring all funding into Project 640011.

A. Mission Description and Budget Item Justification

This Project previously focused specifically on refinement and maturation of candidate concepts derived from the Force Design and Capability Development Executive Officer (CDEO) priorities to inform Planning for Development decisions. These maturation activities accelerate acquisition timelines, reduce technology risks, demonstrate integration and delivers potential solutions to address warfighting needs. Use of modern digital tools and methodologies render quality data-driven decision space. Results from these activities inform or refine concepts that are not mature enough for acquisition decisions to determine operational viability and/or progress to further Planning for Development. Starting in FY 2025 this Project will no longer be used, realigning these activities under Project 640011 to improve efficiency and prevent duplication of work. This realignment ensures all efforts are properly managed within a unified capability development framework.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver 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 2025	FY 2026	FY 2027
Title: Maturation and Modernization	2.842	2.869	0.000
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. Multiple technology transitions may be needed for a Concept Refinement candidate or realized system.			
FY 2026 Plans: - All associated FY 2025-2027 plans, activities, and execution in the "Maturation and Modernization" Thrust, Project 640012 have been consolidated into the 'Capability Development Core Ops' thrust under a single Project 640011. This realignment prevents			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604609F / <i>Requirements Analysis & Co</i> <i>ncept Maturation</i>	Project (Number/Name) 640012 / <i>Maturation and Modernization</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
the duplication of work between the two areas and ensures all activities are properly aligned within a single, unified capability development framework.			
FY 2027 Plans: - N/A. FY 2027, this Project will no longer be used. All associated plans and activities have been consolidated under Project 640011.			
FY 2026 to FY 2027 Increase/Decrease Statement: - FY 2027 funding decreased compared to FY 2026 by \$2.869 million. Starting in FY 2025, this Project will no longer be used. All associated plans and activities have been consolidated under Project 640011.			
Accomplishments/Planned Programs Subtotals		2.842	2.869
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Each project's acquisition strategy and contracting actions will be tailored to meet the specific needs of Air Force stakeholders and priorities.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force													Date: April 2026		
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	May 2026	0.000	Mar 2027	-		0.000	Continuing	Continuing	-
Subtotal			-	1.940		1.956		0.000		-		0.000	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	May 2026	0.000	Mar 2027	-		0.000	Continuing	Continuing	-
Subtotal			-	0.902		0.913		0.000		-		0.000	Continuing	Continuing	N/A
			Prior Years	FY 2025	FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	2.842	2.869		0.000		-		0.000	Continuing	Continuing	N/A	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 4					PE 0604609F / Requirements Analysis & Co					640012 / Maturation and Modernization									
					ncept Maturation														

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
646090: Hard and Deeply Buried Targets (HDBT)	0.000	0.000	4.522	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.522
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

- In FY2026, funding was appropriated to Project 646090 Hard and Deeply Buried Targets (HDBT). In FY2025, work was initiated for HDBT under Project 640011. To be consistent with work accomplished already for HDBT, funding will be realigned from Project 646090 to Project 640011 in the year of execution.

A. Mission Description and Budget Item Justification

This Project conducts an Office of the Secretary of War (OSW)-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 weaponeering 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 Department of War (DoW)-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 munition 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 2025	FY 2026	FY 2027
Title: Hard and Deeply Buried Targets (HDBT)	0.000	4.522	0.000
Description: This Project executes a broad-scope weaponeering 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 2026 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604609F / <i>Requirements Analysis & Concept Maturation</i>		Project (Number/Name) 646090 / <i>Hard and Deeply Buried Targets (HDBT)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
- 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. - In FY2026, funding was appropriated to Project 646090 Hard and Deeply Buried Targets (HDBT). In FY2025, work was initiated for HDBT under Project 640011. To be consistent with work accomplished already for HDBT, funding will be realigned from Project 646090 to Project 640011 in the year of execution. FY 2027 Plans: - N/A. The HDBT Ensemble Analysis project will conclude in FY26. This Project will no longer be used. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 funding decreased compared to FY 2026 by \$4.522 million. This decrease is due to completion of the HDBT Ensemble Analysis project at the end of FY 2026.					
Accomplishments/Planned Programs Subtotals			0.000	4.522	0.000
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
D. Acquisition Strategy					
An Ensemble Analysis was implemented in FY 2025 to further identify and understand counter-HDBT capability gaps and inform the Air Force and DoW 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 AoAs 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 2027 Air Force													Date: April 2026		
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	3.022	Jun 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	0.000		3.022		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	1.500	May 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	0.000		1.500		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025	FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	0.000	4.522		-		-		-	Continuing	Continuing	N/A	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 4						PE 0604609F / Requirements Analysis & Concept Maturation						646090 / Hard and Deeply Buried Targets (HDBT)			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	3	2025	4	2026
Concept Development/Development Planning	1	2026	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	71.552	124.787	57.802	0.000	57.802	96.499	150.148	122.683	105.052	0.000	728.523
646682: JTMS DEVELOPMENT	0.000	71.552	124.787	57.802	0.000	57.802	96.499	150.148	122.683	105.052	0.000	728.523
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 Department of War (DoW) 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 DoW and achieve significant gains in two of the focus areas of the DoW'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 included all necessary 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, and 0605898F.

FY 2025 was rescinded \$27.916 million and is not reflected in this budget documentation.

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 2027 Air Force				Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	74.103	129.626	0.000	0.000	0.000
Current President's Budget	71.552	124.787	57.802	0.000	57.802
Total Adjustments	-2.551	-4.839	57.802	0.000	57.802
• Congressional General Reductions	0.000	-3.233			
• 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	-2.551	-1.606			
• Other Adjustments	0.000	0.000	57.802	0.000	57.802
Change Summary Explanation					
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.					
The FY2026 Congressional reduction of 3.233 Million was due full-time equivalent under-execution					
C. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
Title: Joint Transportation Management System Acquisition/Development			71.552	124.787	57.802
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 2026 Plans:					
1) Continue Organizational Change Management and communications.					
2) Consolidate JTMS Support Activities (Program Management, Engineering, Functional Support (finance and logistics), and Auditability).					
3) Continue standup and securing of the JTMS materiel solution cloud hosting environment and components hosted within.					
4) Continue Design-Level Business Process Reengineering and Materiel Solution Blueprinting across CONUS freight line of business.					
5) Procure necessary software to configure material solution.					

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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) 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 2027 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 to procure software to configure material solution and procure software required to support material solution fielding. 5) Continue standup and securing of the JTMS materiel solution cloud hosting environment and components hosted within. 6) Continue Design-Level Business Process Reengineering and Materiel Solution Blueprinting across CONUS freight line of business. 7) Configuration of materiel solution to support lines of operation under CONUS freight. 8) Begin limited deployment of integrated transportation and financial management capabilities. 9) Developmental and Operational Testing activities. 10) Develop training approach, mechanisms, and environments. FY 2026 to FY 2027 Increase/Decrease Statement: Funding in FY2027 was reduced by \$66.985 million for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222.		FY 2025	FY 2026	FY 2027
Accomplishments/Planned Programs Subtotals		71.552	124.787	57.802
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy The program's plan is to implement JTMS across 86 lines of operation utilizing a methodical approach while leveraging supporting contracts for foundational activities like requirements analysis, program management support, and organizational change management. The JTMS Implementation Contract is a single award indefinite delivery indefinite quantity (IDIQ) with a ten-year ordering period (FY 2025 - FY 2035) using a modular contracting method of smaller, more manageable task orders.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026					
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	32.230	Jun 2025	89.351	Oct 2025	21.687	Oct 2026	-		21.687	Continuing	Continuing	0.000		
Subtotal			-	32.230		89.351		21.687		-		21.687	Continuing	Continuing	N/A		
Remarks Test																	
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	8.418	Oct 2025	8.927	Oct 2026	-		8.927	Continuing	Continuing	-		
Pre-acquisition Support	C/Various	Not specified. : Scott AFB, IL	-	12.395	Oct 2024	-		-		-		-	Continuing	Continuing	0.000		
Subtotal			-	15.186		8.418		8.927		-		8.927	Continuing	Continuing	N/A		
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.124	Nov 2024	0.731	Oct 2025	1.112	Oct 2026	-		1.112	Continuing	Continuing	-		
Subtotal			-	0.124		0.731		1.112		-		1.112	Continuing	Continuing	N/A		
Remarks Note: The program executes civilian pay (72 FTEs) out of the same Program (0604668F).																	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.501	Nov 2024	4.120	Oct 2025	4.202	Oct 2026	-		4.202	Continuing	Continuing	-
Joint Program Office Support	C/Various	TBD : Scott AFB, IL	-	10.001	Oct 2024	13.351	Oct 2025	10.700	Oct 2026	-		10.700	Continuing	Continuing	0.000
Civilian Pay	TBD	Not specified. : Scott AFB, IL	-	9.510	Oct 2024	8.816	Oct 2025	11.174	Oct 2026	-		11.174	Continuing	Continuing	-
Subtotal			-	24.012		26.287		26.076		-		26.076	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	71.552		124.787		57.802		-		57.802	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2025	1	2026
Program Acquisition				
JTMS Development	2	2026	1	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	4.840	4.996	5.136	0.000	5.136	5.319	5.419	5.522	5.634	Continuing	Continuing
640216: Deployment and Distribution Innovation	0.000	4.840	4.996	5.136	0.000	5.136	5.319	5.419	5.522	5.634	Continuing	Continuing
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, Department of War , 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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	4.840	4.996	0.000	0.000	0.000
Current President's Budget	4.840	4.996	5.136	0.000	5.136
Total Adjustments	0.000	0.000	5.136	0.000	5.136
• 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	5.136	0.000	5.136

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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, Program 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. The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Transportation Innovation 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 2026 Plans: In FY 2025, Program 0604776F, (Deployment & Distribution Enterprise R&D), Project 640216, (Deployment and Distribution Innovation) certain initiatives were transferred to Program 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 2027 Plans: Funds are used to support New Start research projects garnered via an annual March through October solicitation process. Funds also used to collaboratively invest/shape in the Office of the Undersecretary of Defense, Research & Engineering (OUSD(R&E)) programs (e.g., Defense Innovation Accelerator) proposals that address contested logistics challenges. On average, this line supports the funding of approximately six New Starts per year. FY 2026 to FY 2027 Increase/Decrease Statement: No change in BA4 funding level while overall project funding level decreased in BA3 BPAC due to funds being applied to collaboratively funded investments in the Office of the Undersecretary of War, Research & Engineering (OUSW(R&E)) programs (e.g., Defense Innovation Accelerator) proposals that address contested logistics challenges.		0.000	0.000	0.000
Title: Global Reach Description: Tactical Situation, COP, mission planning, intelligence, communications resiliency, ship survivability capabilities. Technical Partner U.S. Navy Naval Service Warfare Center. Transition:GLOBAL REACH relies on existing national sensors, capabilities, and databases, as well as Service program of records		-	0.000	1.281

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
FY 2026 Plans: Detailed FY2026 plans in Program 0604776F BA3 Project 630004 since development tests conducted in a simulated environment.				
FY 2027 Plans: Design, develop, integrate Minotaur Reach/Minotaur Web Services into day-to-day MSC afloat (and ashore) operations. Since MSC MR/MWS integration may vary according to Program (PM) and/or vessel, specific integration scope and effort requirements will be documented through a customer Technical Interchange Meeting.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to FY2026 funds and a portion of FY2027 funds being inserted in Program 0604776F since development tests are conducted in a simulated environment. These FY2027 development test funds are conducted in an operational environment.				
Title: Automatic Landing Zone Description: Aid selection of a Landing Zone/Drop Zone (LZ/DZ) by presenting the user with a map-based course of action decision tool, at point of need. Technical Partner U.S. Army Combat Development Command. The primary transition path for Auto-LZ will be to United States Air Force (USAF) Mission Planning Systems Program Office (AFLCMC/HBM) for integration into the Consolidated Airdrop Tool (CAT) POR and U.S. Army PM Force Sustainment Systems (PM FSS) for integration into Joint Precision Airdrop Systems (JPADS) POR		-	0.000	1.045
FY 2026 Plans: Detailed FY2026 plans in Program 0604776F BA3 Project 630004 since the machine learning algorithm construction and integration in a simulated environment.				
FY 2027 Plans: Machine learning algorithm construction and integration. Algorithms will need to be trained to function properly. The data supplied to the algorithm will help shape the algorithm's performance. Prove ability to show the algorithm images with buildings labeled and to characterize these labels as areas in which no landing or flight can occur. This is being demo'd in a lab environment in FY2026 and then in a field environment in FY2027, which makes it BA4 in FY2027.				
FY 2026 to FY 2027 Increase/Decrease Statement: There is no significant increase in funding level since FY26 funding is \$1.034 million but is BA3 in project 63004.				
Title: Distributed Littoral Ops Fuel Transfer		0.000	0.265	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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. The Joint Petroleum Over-The-Shore Program Office that is being established under the Naval Facilities Command would be responsible for acquisition and life cycle support for the DLOFTS and the Track Line Crawler as a component of that system FY 2026 Plans: Project funding concluded in FY2026. Transition plan is to United States Navy Joint Petroleum Over-The-Shore (JPOTS). FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to project funding ending in FY2026 and transitioning to the United States Navy Joint Petroleum Over-the-Shore (JPOTS).				
Title: Data Lakes Description: Initiative seeks to improve data quality, detect anomalies, and enhance decision support. Transition to enterprise systems. FY 2026 Plans: Project ends in FY 2025. FY 2026 to FY 2027 Increase/Decrease Statement: N/A		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. This project will transition to three PMs, providing this capability to all services: USA PEO Soldier PM SCIE, PARANAVSYS PoR, USAF Mission Planning PM, USAF AFLCMC HBM, PM U.S, and USSOCOM AT&L SOMPE. 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. This is why the funding shifted from BA3 to BA4 in FY26. FY 2027 Plans:		0.000	0.800	0.760

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Mission planning software will be matured to increase capability and interoperability, with deployments on both Android and Windows platforms. Software will be tested in operational environment and validated against existing approved mission planning system. Funding becomes BA4 since demonstrated in an operational vice simulated environment. FY 2026 to FY 2027 Increase/Decrease Statement: Slight decrease in funding due to planned FY27 development schedule.				
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. Transition Product Manager Force Sustainment Systems (PdM FSS). 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 2027 Plans: Plug and play full system integration with massive software and hardware-in-the-loop integration and demonstration/testing in an operational environment. FY 2026 to FY 2027 Increase/Decrease Statement: Slight funding increased due to total FY2026 funding being \$1.650 million, split between BA3 and BA4 due to testing/demo in simulated and operational environments. FY2027 is all operational environment which increases costs slightly.		0.000	0.381	1.750
Title: Petroleum Undersea Sustainment Hose 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 2026 Plans: FY 2025, Project 640216, Petroleum Undersea Sustainment Hose completed. FY 2026 to FY 2027 Increase/Decrease Statement: N/A		0.300	0.000	-
Title: Airdrop System - Precision Extended Glide		0.800	1.600	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Description: Demonstrate a long range powered parafoil system to reduce risk to delivery aircraft. Technical partner is U.S. Army Combat Development Command. .Transition: US Army Product Manager Force Sustainment System currently owns the JPADS Program of Record FY 2026 Plans: Complete testing and demonstration of parafoil system to reduce risk to delivery aircraft in an operational environment. FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to Airdrop System - Precision Glide project funding complete in FY2026.				
Title: Container Airdrop JADDE 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. JADDE portion is a field demonstration of this capability aligned with other airdrop systems for capability. FY 2026 Plans: Continue demonstrating and testing in an operational environment the integrated platform container locking system that conceals the payload and reduces risk to ground forces. JADDE will provide forum for live demonstrations with other airdrop systems. FY 2026 to FY 2027 Increase/Decrease Statement: Funding decrease due to Container Airdrop System funding complete in FY2026		0.000	0.200	-
Title: Scalable Autonomous Modular Propulsion Kits Description: 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. FY 2026 Plans: 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. FY 2026 to FY 2027 Increase/Decrease Statement: Funding decrease due to Scalable Autonomous Modular Propulsion Kits funding ends in FY2026.		0.500	0.450	-
Title: Buoyant Roll On/Roll Off Interface Kit		0.500	0.000	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 2026 Plans: Buoyant Roll On/Roll Off Interface Kit funding ends in FY2025 FY 2026 to FY 2027 Increase/Decrease Statement: N/A				
Title: Modular Autonomous Ready Dynamic Positioning System Description: 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. FY 2026 Plans: Modular Autonomous Ready Dynamic Positioning System funding ends in FY2025. FY 2026 to FY 2027 Increase/Decrease Statement: N/A		0.764	0.000	-
Title: AI-Powered Sensitive Data Masking Description: Focus on masking structured data, building an organizational knowledge base, and masking unstructured data. 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 2027 Plans: Test and report findings on how accurately information can be masked with Final Technical Report FY 2026 to FY 2027 Increase/Decrease Statement: Funding decrease due to less development and more testing and development of final report		0.000	0.600	0.300
Title: Aerial Delivery and Autonomous Deployment of Unmanned Vehicles		0.564	0.000	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 2026 Plans: Project ended in FY 2025. FY 2026 to FY 2027 Increase/Decrease Statement: N/A				
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 2026 Plans: Project ended in FY 2025. FY 2026 to FY 2027 Increase/Decrease Statement: N/A		0.238	0.000	-
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 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. PROJECT CANCELLED FY 2026 to FY 2027 Increase/Decrease Statement: N/A		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		0.000	0.700	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 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 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to Component Level Operational Decision Advantage funding ending in FY2026.				
Title: Cyber Mission Assurance Technologies		0.173	0.000	-
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 2026 Plans: Cyber Mission Assurance Technologies funding ends in FY2025				
FY 2026 to FY 2027 Increase/Decrease Statement: N/A				
Accomplishments/Planned Programs Subtotals		4.840	4.996	5.136
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.840		4.996		5.136		-		5.136	Continuing	Continuing	-
Subtotal			-	4.840		4.996		5.136		-		5.136	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	4.840		4.996		5.136		-		5.136	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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
<i>Deployment and Distribution</i>				
Integrated Logistics Support	1	2025	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	246.279	159.756	166.061	0.000	166.061	225.117	195.388	208.221	227.659	Continuing	Continuing
640410: <i>Tech Maturation and Risk Reduct/Development</i>	0.000	0.000	6.481	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
645350: <i>Experimentation</i>	0.000	85.608	14.342	41.732	0.000	41.732	57.360	58.438	59.549	65.372	Continuing	Continuing
645351: <i>Prototyping</i>	0.000	150.531	49.041	62.627	0.000	62.627	131.921	111.337	138.522	151.925	Continuing	Continuing
645352: <i>Architecture Design and Evaluation</i>	0.000	10.140	89.892	61.702	0.000	61.702	35.836	25.613	10.150	10.362	Continuing	Continuing

A. Mission Description and Budget Item Justification

Capability development provides the analytic, technical, and programmatic rigor necessary to address operational 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 concept development, prototyping, and experimentation.

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 experimentation to assess military utility, innovative concepts, and weapon systems with potential for transition. This program utilizes multiple approaches and integrated activities to field technology for the warfighter focusing on efforts that are directly tied to the Air Force Force Design and 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, experiment, and demonstrate candidate technologies to assess them in an operational system of systems environment in partnership with the warfighter, Combatant Commanders, Major and Field Commands, Portfolio Acquisition Executives (PAEs), schoolhouses, simulation facilities, and development planning organizations.

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 in support of technology transition to deliver capabilities to the warfighter. This includes, but is not limited to, suitability, supportability, maintainability, and logistics necessary to employ and sustain those capabilities.

In addition to traditional hardware and software, high-impact capabilities could include autonomy and Artificial Intelligence technologies that are stand-alone or embedded into existing systems. They could also include broad enablers such as open architectures, digital infrastructure, test infrastructure, or simulation environments.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026			
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 0604858F I Tech Transition Program				
Prototyping enables integration and demonstration of emerging technologies to quickly move them into warfighting capability, allowing for iterative development and increased use of the latest technology, including commercial. Tech Maturation and Risk Reduction/Development competitively assess commercial solutions to identify system components for rapid insertion and delivery.						
Architecture Design and Evaluation is executed by the Department of the Air Force (DAF) PAE for 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 remain flexible across multiple technology areas and solution spaces as requirements and the warfighting and resource environments change.						
The FY 2026 spend plan amount for Research, Development, Testing and Evaluation includes \$159,756 thousand of discretionary and \$296,000 thousand of mandatory (reconciliation) for a total of \$455,756 thousand in support of Family of Affordable Mass Missiles (FAMM), Enterprise Test Vehicle (ETV), and Palletized Effects.						
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 2027, 8.503 million is budgeted for this program for 41 direct Full Time Equivalent civilians.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		239.342	134.833	0.000	0.000	0.000
Current President's Budget		246.279	159.756	166.061	0.000	166.061
Total Adjustments		6.937	24.923	166.061	0.000	166.061
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	33.900			
• Congressional Directed Transfers		0.000	-7.513			
• Reprogrammings		15.000	0.000			
• SBIR/STTR Transfer		-8.063	-1.464			
• Other Adjustments		0.000	0.000	166.061	0.000	166.061

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026	
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	
Congressional Add Details (\$ in Millions, and Includes General Reductions)		FY 2025	FY 2026
Project: 645350: Experimentation			
Congressional Add: Program Increase - Operational Additive Manufacturing Capabilities		2.000	0.000
Congressional Add Subtotals for Project: 645350		2.000	0.000
Congressional Add Totals for all Projects		2.000	0.000
Change Summary Explanation FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640410: Tech Maturation and Risk Reduct/Development	0.000	0.000	6.481	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The DoW 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 are 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 Commercial 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 2025	FY 2026	FY 2027
Title: Tech Maturation and Risk Reduction	0.000	6.481	0.000
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) 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 C-sUAS capabilities to deliver LCD capabilities capable of defeating more advanced threats while reducing risk of collateral effects to surrounding populated areas, congested air spaces, and friendly electromagnetic environments.			
FY 2027 Plans: No activities are planned in FY 2027.			
FY 2026 to FY 2027 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
FY 2027 funding decreased compared to FY 2026 by \$6.481 million. This decrease is by design. The BPAC created to conduct a one-year concept maturation experiment in support of Low Collateral Defeat component(s) for the DAF Program of Record.				
Accomplishments/Planned Programs Subtotals		0.000	6.481	0.000
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	MIPR	Not specified. : TBD	-	-		6.481	Apr 2026	-		-		-	0.000	6.481	-
Subtotal			-	-		6.481		-		-		-	0.000	6.481	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		6.481		-		-		-	0.000	6.481	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
645350: Experimentation	0.000	85.608	14.342	41.732	0.000	41.732	57.360	58.438	59.549	65.372	Continuing	Continuing
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 Office of the Secretary of War (OSW) and Department of Air Force (DAF) priorities. Concepts and enabling technologies explored in this activity may 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 through 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 DAF needs.

Experimentation campaigns are centered on tactical and operational level warfighting concepts 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 future challenges and threats 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 DAF 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 doctrine and 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 an 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, and infrastructure.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645350 / Experimentation		
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 requirement supports performance of full financial audit as required by title 10 U.S.C Chapter 9A, Sec 240-D.					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
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 2026 Plans: - Hawkeye Experimentation Campaign transitioned to Project 645352 Architecture Design and Evaluation in FY 2026. FY 2027 Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: N/A			74.128	0.000	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. FY 2026 Plans: - Execute Air Force Center for Strategy and Technology (CSAT) Blue Horizons Class XI Projects, developing candidate solutions to the Academic Year 2026 strategic dilemma posed by the Chief of Staff of the Air Force (CSAF). Solutions will address the Homeland Defense, Long Range Kill Chain (LRKC), Counter-High Value Airborne Asset (HVAA), and Counter-Surface Action Group missions.			3.500	8.020	35.282

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Conduct rapid experimentation and assessment of candidate solutions addressing emerging capability gaps to inform potential follow-on development, including projects such as Counter-Small Unmanned Aircraft Systems (C-sUAS), HVAA-Protect, and other potential emerging projects. FY 2027 Plans: - Continue to execute Air Force CSAT Blue Horizons Class XII Projects, developing candidate solutions to the Academic Year 2027 strategic dilemma posed by CSAF. Solutions will address the Homeland Defense, LRKC, Counter-HVAA, and Counter-Surface Action Group missions. - Conduct rapid experimentation to evaluate new capabilities and technologies, rigorously assessing their effectiveness in addressing identified capability shortfalls. The experimentation is synergistic with prototyping activities, and critical to the assessment and analysis. Prioritized Mission Engineering Threads, such as Counter-Air (HVAA-Protect, C-UAS), Persistent Intelligence, Surveillance, and Reconnaissance (MQ-Next, Multi-Mission Autonomy), and Rapid Strike (LRKC, Next Generation Airlift) will guide these efforts. The data generated from these experiments will be used to make informed decisions regarding potential follow-on development, ensuring alignment with strategic priorities and maximizing return on investment. FY 2026 to FY 2027 Increase/Decrease Statement: - FY 2027 funding increased compared to FY 2026 by \$27.282 million. This increase is due to new work in the Capability Development portfolio and updated emerging projects that are aligned with emerging threats. Projects and experimentation priorities are informed by Mission Engineering Threads, as detailed in the FY 2027 plans.			
Title: USNORTHCOM Modeling, Simulation, and Experimentation Description: 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. FY 2026 Plans: - Continuing to 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 DoW Homeland Defense C-sUAS Synchronizer, to improve awareness and detection of adversary activities across the area of responsibility (AOR). FY 2027 Plans:		5.980	6.322
			6.450

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Continue to 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 DoW Homeland Defense C-sUAS Synchronizer, to improve awareness and detection of adversary activities across the AOR. FY 2026 to FY 2027 Increase/Decrease Statement: - FY 2027 funding increased compared to FY 2026 by \$0.128 million. This increase is due to inflation.			
Accomplishments/Planned Programs Subtotals		83.608	14.342
		FY 2025	FY 2026
Congressional Add: Program Increase - Operational Additive Manufacturing Capabilities		2.000	0.000
FY 2025 Accomplishments: Not applicable			
FY 2026 Plans: Not applicable			
Congressional Adds Subtotals		2.000	0.000
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. HAF/A5/7, HAF/A8, U.S. 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 Integrated Development Office (IDO) located at Wright-Patterson Air Force Base, Ohio and Eglin Air Force Base, Florida 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 2027 Air Force **Date:** April 2026

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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		-		-		-	0.000	1.808	-
Experimentation Campaigns Hawkeye	Various	Various : Various	-	37.366	Jun 2026	-		-		-		-	0.000	37.366	-
Experimentation Campaign Blue Horizons	Various	Various : Various	-	3.500	Dec 2024	3.500	Mar 2026	3.500	Mar 2027	-		3.500	Continuing	Continuing	-
Experimentation Campaign NORTHCOM	Various	Various : Various	-	6.200	Feb 2026	6.324	Sep 2026	6.450	Sep 2027	-		6.450	0.000	18.974	-
Congressional Add - operational additive manufacturing capabilities	Various	Various : Various	-	2.000	Dec 2025	-		-		-		-	Continuing	Continuing	-
Emerging Requirements for Capability Development	Various	Various : Various	-	-		0.000	Sep 2026	6.282	Jun 2027	-		6.282	Continuing	Continuing	-
ARGUS /Autonomy	Various	Various : Various	-	-		-		15.000	Jun 2027	-		15.000	Continuing	Continuing	-
Subtotal			-	50.874		9.824		31.232		-		31.232	Continuing	Continuing	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Hawkeye	Various	Various : Various	-	2.700	Jan 2025	-		-		-		-	0.000	2.700	-
Subtotal			-	2.700		-		-		-		-	0.000	2.700	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645350 / Experimentation					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 - HABS	C/Various	Not specified. : TBD	-	14.500	Jan 2026	-		-		-		-	0.000	14.500	-
Experimentation Campaign Hawkeye	Various	Various : Various	-	4.384	Jan 2025	-		-		-		-	0.000	4.384	-
Subtotal			-	18.884		-		-		-		-	0.000	18.884	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	11.600	Sep 2025	4.518	Sep 2026	10.500	May 2027	-		10.500	0.000	26.618	-
Experimentation Campaign Program Management Administration Costs - Hawkeye	Various	Various : Various	-	1.550	Mar 2026	-		-		-		-	0.000	1.550	-
Subtotal			-	13.150		4.518		10.500		-		10.500	0.000	28.168	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	85.608		14.342		41.732		-		41.732	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program					Project (Number/Name) 645350 / Experimentation									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Blue Horizons Projects																												
Blue Horizons Projects																												
Hawkeye																												
Hawkeye																												
Emerging Requirement for Capability Development																												
Emerging Requirements for Cap Dev																												
Congressional Add - Operational Additive Manufacturing Capabilities																												
Congressional Add - Operational Additive Manufacturing Capabilities																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force

Date: April 2026

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	2025	4	2031
Blue Horizons Projects				
Blue Horizons Projects	1	2025	4	2031
Hawkeye				
Hawkeye	1	2025	4	2026
Emerging Requirement for Capability Development				
Emerging Requirements for Cap Dev	1	2025	4	2031
Congressional Add - Operational Additive Manufacturing Capabilities				
Congressional Add - Operational Additive Manufacturing Capabilities	1	2025	4	2025

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 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 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
645351: Prototyping	0.000	150.531	49.041	62.627	0.000	62.627	131.921	111.337	138.522	151.925	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

- In FY 2027, the Family of Affordable Mass Missiles (FAMM) and Enterprise Test Vehicle (ETV) efforts transitions to Program, 0604041F as the program has matured and transitioned to the Program Office.

A. Mission Description and Budget Item Justification

The Prototyping project enables demonstrations of emerging technologies and warfighting concepts 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 (DAF) Portfolio Acquisition Executives (PAEs) 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, autonomy enhancements, architecture development, 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 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, 0604858F, or 0605898F

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

	FY 2025	FY 2026	FY 2027
Title: Lifecycle Prototyping	62.341	43.041	62.627
Description: Following strategic Department of War (DoW) and Department of the Air Force (DAF) direction, cross-functional teams composed of operators, technologists, engineers, acquisition, and requirements personnel from across the DAF 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 DAF 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.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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 2025	FY 2026	FY 2027
Exploring innovative prototypes that range across the full Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities, and Policy spectrum gives DAF 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.					
FY 2026 Plans:					
- Air Force Materiel Command (AFMC) Integrated Development Office (IDO) will complete operational testing of the Rapid Dragon (palletized effects) system (Phase 7 Base and Option 1) while assessing the operational advantages the system provides against peer adversaries. AFMC IDO will continue to work with DAF, Major and Combatant Commands, and the Air Force Life Cycle Management Center (AFLCMC) Combat Readiness program office 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. In FY 2026, this effort is funded from reconciliation (low-cost munitions and supply chain).					
- 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. ETV Design Cycle 3 will complete Variant 1 development activities, resulting in demonstration of a low-cost cruise missile 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 with third-party vendor components. Additional integrations could include new datalinks, seekers/sensors, navigation and other sub-systems. Demonstrations could include maturing different options for weapon employment, to include palletized employment, fighter/bomber air launch, ground launch, and others. Begin ETV Variant 2 development which could include prototyping activities for affordable mass air-to-air, air-to-surface, hypersonic, and other form-factors/capabilities. In FY 2026, this effort is funded from reconciliation (low-cost munitions and supply chain).					
- ETV work transfers to Program 0604041F in FY 2027.					
- FAMM will be a 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).					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
Work will also include testing and certification of palletized mass employment munition flight vehicles. In FY 2026, this effort is funded from reconciliation (low-cost munitions and supply chain). - FAMM work transfers to Program 0604041F in FY 2027. - High Value Airborne Asset (HVAA) Protect 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 HVAA survivability through increased optimization of legacy assets and new technology. Efforts include prototype development, assessment of CONOPs, and demonstration of a cutting-edge prototype protection package for HVAA. FY 2027 Plans: - In FY 2027, FAMM and ETV efforts transition to Program, 0604041F as the program has matured and transitioned to the Program Office. - In FY 2027, conduct rapid prototyping of new capabilities and technologies, furthering military proficiency through Government advancements, commercial technology, and DoW industry. Prototyping areas partner with experimentation on to assess these new technologies across prioritized Mission Engineering Threads, such as Counter-Air (HVAA-Protect, C-UAS), Persistent Intelligence, Surveillance, and Reconnaissance (ISR) (MQ-Next, Multi-Mission Autonomy), and Rapid Strike (Long Range Kill Chain, Next Generation Airlift), will guide these efforts. The data generated from these prototypes will be used to make informed decisions regarding potential follow-on development, ensuring alignment with strategic priorities and maximizing return on investment. FY 2026 to FY 2027 Increase/Decrease Statement: - FY 2027 funding increased by \$19.586 million compared to FY 2026 due increases in prototype work on new experimentation/ prototyping efforts for capability development. This new work will prioritize areas informed by Mission Engineering Threads, such as Counter-Air, Persistent ISR, and Rapid Strike.			
Title: Blended Wing Body - Next Generation Aircraft 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		88.190	6.000
			0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
government and industry stakeholders. This project works in coordination with the Air Force Operational Energy office and key stakeholders from National Aeronautics and Space Administration (NASA) and the Federal Aviation Administration (FAA). FY 2026 Plans: - Based on FY 2025 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 2027 Plans: - No planned activities for Blended Wing Body in FY 2027. FY 2026 to FY 2027 Increase/Decrease Statement: - FY 2027 funding decreased compared to FY 2026 by \$6.000 million due to programmatic adjustments within the RDT&E portfolio to improve resource efficiency.			
Accomplishments/Planned Programs Subtotals		150.531	49.041
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. HAF/A5/7, HAF/A8, U.S. 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 Integrated Development Office (IDO) located at Wright-Patterson Air Force Base, Ohio and Eglin Air Force Base, Florida 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 2027 Air Force **Date:** April 2026

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645351 / Prototyping

Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		0.000	Dec 2025	-		-		-	0.000	0.000	-
Prototyping Campaign Palletized Munitions (Rapid Dragon) Contract 1	C/CPFF	Lockheed Martin : Orlando, FL	-	10.000	Oct 2025	-		-		-		-	0.000	10.000	-
Prototyping Campaign Saint Contract 1	TBD	TBD : TBD	-	6.000	Feb 2025	-		-		-		-	0.000	6.000	-
Next Gen Large Aircraft (BWB)	C/FP	JetZero : Long Beach, CA	-	83.157	Jul 2025	6.000	Jun 2026	-		-		-	0.000	89.157	-
Next Gen Large Aircraft (BWB) - Contracts	Various	Various : Various	-	3.546	Jul 2025	-		-		-		-	0.000	3.546	-
Enterprise Test Vehicle (ETV)	Various	Various : Various	-	44.748	Jan 2025	-		0.000	May 2027	-		0.000	Continuing	Continuing	-
Prototyping Requirements for Capability Development	TBD	Not specified. : TBD	-	-		-		52.177	Apr 2027	-		52.177	Continuing	Continuing	-
Congressional Add: High Temperature Modeling Valves	TBD	Not specified. : TBD	-	-		9.000	Aug 2026	-		-		-	Continuing	Continuing	-
Congressional Add: Tactical 3D Printing	TBD	Not specified. : TBD	-	-		14.900	Aug 2026	-		-		-	Continuing	Continuing	-
Congressional Add: Advanced Thermal Management Systems	TBD	Not specified. : TBD	-	-		10.000	Aug 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	147.451		39.900		52.177		-		52.177	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.080	Mar 2025	9.141	May 2026	10.450	Apr 2027	-		10.450	Continuing	Continuing	-
Subtotal			-	3.080		9.141		10.450		-		10.450	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program					Project (Number/Name) 645351 / Prototyping			
	Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	150.531		49.041		62.627		-		62.627	Continuing	Continuing	N/A

Remarks
Additional details can be provided in the appropriate forum.

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force	Date: April 2026

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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Rapid Dragon (Palletized Munitions)																												
<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 2027 Air Force			Date: April 2026
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>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Lifecycle Prototyping</i>				
Lifecycle Prototyping	1	2025	4	2031
Rapid Dragon (Palletized Munitions)	1	2025	4	2026
<i>Blended Wing Body</i>				
Air Vehicle Design	1	2025	3	2025
Airframe Manufacturing	2	2025	4	2026
Avionics and Flight Controls	2	2025	4	2026
Aircraft Integration and Tests	1	2026	1	2026
Structural Analyses and Tests	2	2025	2	2026
Aircraft Sub-Systems and Propulsion	2	2025	4	2026
Flight Simulations	2	2025	1	2026
Ground Tests (including wind tunnel testing)	1	2025	2	2026
Loads Tests	1	2026	3	2026
Flight Readiness, Demonstration, and Initial Test Activities	3	2026	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
645352: Architecture Design and Evaluation	0.000	10.140	89.892	61.702	0.000	61.702	35.836	25.613	10.150	10.362	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Department of Air Force (DAF) Portfolio Acquisition Executive (PAE) Command, Control, Communications and 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). This office is responsible for the technical integrity of the DAF BATTLE NETWORK as efforts integrate Advanced Battle Management System (ABMS) capabilities, the rest of the DAF's C2 systems, and other Services' capabilities under Joint All-Domain Command and Control (JADC2). 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. 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 ORT provide the subject matter expertise to develop mission-focused architectures to enable cross-cutting architecture development across PAEs, Major and Field Commands. Architecture Design and Evaluation analyzes science, technology, research, development, and experimentation enterprises to determine the technical and operational feasibility of new technical concepts

Architecture Design and Evaluation is directed by the DAF PAE 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. In FY 2027, \$8.503 million is budgeted in this program for 41 direct Full-Time Equivalent (FTE) civilians.

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 2025	FY 2026	FY 2027
Title: DAF Architecture Design and Integration	10.140	10.358	9.652
Description: DAF PAE 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			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
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. 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 ORT provide the subject matter expertise to develop mission-focused architectures to enable cross-cutting architecture development across Portfolio Acquisition Executives, Major and Field Commands. Architecture Design and Evaluation analyze science, technology, research, development, and experimentation enterprises to determine the technical and operational feasibility of new technical concepts. 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 Top Secret/Sensitive Compartmented Information (TS/SCI) and Special Access Programs (SAP), for all ASE and DAF/Office of the Secretary of War (OSW)/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 2027 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/OSW/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 2026 to FY 2027 Increase/Decrease Statement: FY 2027 decreased by \$0.706 million compared to FY 2026 for civilian personnel to optimize the workforce in compliance with Executive Order 14210, "Implementing the President's Department of Government Efficiency Workforce Optimization Initiative."			
Title: SAINT		0.000	41.691
			31.250

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
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 Intelligence, Surveillance, and Reconnaissance (ISR) collection nodes and battlespace manager nodes among the Joint All-Domain Command and Control (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 PAE 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 2026 Plans: - SAINT conducts tests with live operational data from existing sensors and new advanced sensor systems in a fully integrated system test. - The SAINT program continues development with acceleration of the build and testing an operational prototype for the Air Force Custody Engine to make up for the reductions in FY 2025, minimizing operational impacts. - SAINT continues 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 continues 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 are being integrated with the SAINT prototype in FY 2026 for the purpose of further tuning and assessing the Custody Engine performance in operationally relevant conditions. - The SAINT program continues to participate in joint exercises to gain operator utility feedback. Incremental deliveries to C3BM's Battle Network Architecture continue to occur to enable prototype transition and integration activities. FY 2027 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026			
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program	Project (Number/Name) 645352 / Architecture Design and Evaluation		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027	
- SAINT will continue to develop and expand on work from FY 2026, moving to more advanced tuning and testing of the prototype using new operational data feeds anticipated to become available in FY 2027. - SAINT will continue to assess and improve prototype performance in maintaining custody of adversary high value moving targets in support of dynamic targeting. This includes maturing the autonomous fusion of these new data sources with legacy data and determining advanced methods to optimize the collection strategies for these data sources in a way that extracts key target features that contribute to improved kinematic accuracy and target identification (ID) associated with priority adversarial targets. This will expand SAINT's capability to fuse Multi-INT data sources and explore integration into key edge environments to support a distributed operational network and associated concept of operations (CONOPS). - SAINT will continue to participate in operational exercises and tests, moving forward on the path to successful transition to DAF PAE C3BM. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 decreased by \$10.441 million compared to FY 2026 in accordance with planned shift in focus on supporting final capability development, test, maturation and transition activities to DAF PAE C3BM.					
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 Department of War (DoW) and U.S. Government 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 DoW, and transitions the capability to an operational digital infrastructure. FY 2026 Plans: - Continue testing of weapon/target pairing capabilities. - Continue end-to-end kill chain experimentation, including advanced communication techniques.		0.000	37.843	20.800	

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force							Date: April 2026		
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 2025	FY 2026	FY 2027
- Complete software modifications and code refactoring to transition minimum viable product to cloud-based digital infrastructure transition program environment. <i>FY 2027 Plans:</i> - Complete testing of weapon/target pairing capabilities. - Complete development of an operational experimentation of a long-range kill chain, including advanced communication techniques. - Complete test of minimum viable product operating on cloud-based digital infrastructure in C3BM transition environment. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> FY 2027 decreased compared to FY 2026 by \$17.043 million due to planned ramp down of development program and transition to operational programs.			
Accomplishments/Planned Programs Subtotals	10.140	89.892	61.702

C. Other Program Funding Summary (\$ in Millions)										
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOB</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u> <u>Total Cost</u>
• RDTE 04 0604006F: <i>Dept of the Air Force Tech Architecture</i>	2.899	3.138	3.919	-	3.919	4.281	-	-	-	Continuing Continuing
Remarks										
D. Acquisition Strategy										
N/A										

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
STR, AMTC-23-06-002 (SAINT)	C/CPFF	STR : Woodburn, MA	-	2.225	Dec 2024	27.742	Dec 2025	20.860	Dec 2026	-		20.860	Continuing	Continuing	-
Raytheon, AMTC-23-06-005 (SAINT)	C/CPFF	Raytheon : El Segundo, CA	-	-		8.450	Dec 2025	6.500	Dec 2026	-		6.500	Continuing	Continuing	-
Not specified.	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
BAE, AMTC-23-06-007 (SAINT)	C/CPAF	BAE : San Diego, CA	-	-		2.100	Dec 2025	1.500	Dec 2026	-		1.500	Continuing	Continuing	-
KBR (HAWKEYE)	C/FP	KBR / LINQUEST : Houston, TX	-	-		14.205	Nov 2025	8.500		-		8.500	0.000	22.705	-
Minburn (HAWKEYE)	C/FP	Not specified. : Great Falls, VA	-	-		6.461	Nov 2025	1.500		-		1.500	0.000	7.961	-
Contract 4 (HAWKEYE)	MIPR	Not specified. : TBD	-	-		9.091	Oct 2025	8.000		-		8.000	0.000	17.091	-
Licenses (HAWKEYE)	Various	Not specified. : TBD	-	-		0.016	Jan 2026	0.020		-		0.020	0.000	0.036	-
C3BM Architecture Development	Various	Not specified. : TBD	-	7.915	Oct 2024	0.000	Dec 2025	0.000	Dec 2026	-		0.000	Continuing	Continuing	-
Subtotal			-	10.140		68.065		46.880		-		46.880	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 (HAWKEYE)	Allot	TETRAS : Eglin AFB, FL	-	-		0.686	Nov 2025	1.000	Nov 2026	-		1.000	Continuing	Continuing	-
Commercial SATCOM Communications (HAWKEYE)	MIPR	CSCO : Peterson AFB, CO	-	-		1.000	Jan 2026	-		-		-	0.000	1.000	-
C3BM Architecture Development Workforce	Allot	C3BM : TBD	-	-		10.358	Oct 2025	9.055	Oct 2026	-		9.055	Continuing	Continuing	-
Subtotal			-	-		12.044		10.055		-		10.055	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program				Project (Number/Name) 645352 / Architecture Design and Evaluation					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Intuitive, AMTC-23-06-010 (SAINT)	C/CPFF	Intuitive : Niceville, FL	-	-		2.000	Dec 2025	1.000	Dec 2026	-		1.000	Continuing	Continuing	-
TRMC/VFDE (SAINT)	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	0.000	0.000	-
APL (SAINT)	PO	Not specified. : TBD	-	-		1.400	Dec 2025	1.350	Dec 2026	-		1.350	0.000	2.750	-
Government Test Support (HAWKEYE)	PO	Various : Various	-	-		2.655	Dec 2025	0.500	Dec 2026	-		0.500	Continuing	Continuing	-
Subtotal			-	-		6.055		2.850		-		2.850	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 (SAINT)	Various	Various : Various	-	-		-		0.040	Dec 2026	-		0.040	Continuing	Continuing	-
Program Management Administration (HAWKEYE)	Various	Various : Various	-	-		1.053	Apr 2026	1.377	Dec 2026	-		1.377	Continuing	Continuing	-
FFRDC	MIPR	MIT / LL : Lexington, MA	-	-		2.675	Dec 2025	0.500	Jan 2027	-		0.500	Continuing	Continuing	-
Subtotal			-	-		3.728		1.917		-		1.917	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	10.140		89.892		61.702		-		61.702	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026											
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604858F / Tech Transition Program								Project (Number/Name) 645352 / Architecture Design and Evaluation							

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2025	4	2028
Test and Evaluation				
C3BM ORT Evaluation	1	2025	4	2028
HAWKEYE				
HAWKEYE	1	2026	4	2027
SAINT				
SAINT	1	2026	4	2029
Management Services (in Millions)				
Program Management Administration	1	2025	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	24.597	81.419	61.000	0.000	61.000	59.000	60.000	60.000	60.000	0.000	406.016
644861: <i>Operational Energy</i>	0.000	0.000	34.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.909
644862: <i>Installation Resiliency</i>	0.000	24.597	46.510	61.000	0.000	61.000	59.000	60.000	60.000	60.000	0.000	371.107

Note

Distributions: \$15.135 million of the FY 2025 \$24.597 million was intended for 644861, Operational Energy. An adjustment will be made to the prior period at the next opportunity.

A. Mission Description and Budget Item Justification

The Operational Energy and Installation Resilience program develops, matures, prototypes, demonstrates, and assesses technologies, software, and processes to create an energy-optimized force that maximizes combat capability in response to Department of the Air Force warfighters needs. Energy is a cross-cutting pervasive need across every weapon system, platform, installation, and austere operating location.

The Operational Energy projects conduct the necessary prototyping and technology validation to increase weapon system range and time on station, reduce tanker dependency, optimize mobility air force utilization, maximize force projection with available fuel, and mitigate supply chain risk to provide increased readiness and lethality.

The Installation Resilience projects conduct the necessary prototyping and technology validation to ensure energy availability sufficient to provide for mission assurance by developing cybersecure power generation capabilities (including advanced nuclear and alternative energy sources) and improving the control and distribution to critical assets; provides both fixed installation mission assurance and maximizes agile combat effectiveness with limited resources.

This program element included all necessary 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, and 0605898F.

The FY 2026 spend plan amount for Operational Energy includes \$34,909 thousand of discretionary and \$102,000 thousand of mandatory (reconciliation) for a total of \$136,909 thousand.

The FY 2026 funding request was reduced by 1.428 million to account for the availability of prior year execution balances.

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 2027 Air Force				Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	25.395	49.460	0.000	0.000	0.000
Current President's Budget	24.597	81.419	61.000	0.000	61.000
Total Adjustments	-0.798	31.959	61.000	0.000	61.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-1.428			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	34.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.798	-0.613			
• Other Adjustments	0.000	0.000	61.000	0.000	61.000
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 644861: Operational Energy					
Congressional Add: Program Increase Operational Energy and Installation Resilience Program					
Congressional Add Subtotals for Project: 644861					
Project: 644862: Installation Resiliency					
Congressional Add: Program Increase Air Force Energy					
Congressional Add: Program Increase Expeditionary, Grid-scale, Modular Resilient Power Generation					
Congressional Add: Program Increase Next Generation Integrated Vehicle Power Generation Capability					
Congressional Add: Program Increase Operational Energy and Installation Resilience Program					
Congressional Add: Program Increase Wave Energy in Contested Logistics					
Congressional Add Subtotals for Project: 644862					
Congressional Add Totals for all Projects					
Change Summary Explanation					
FY2026 Congressional Directed Reductions:					
-\$1.428 million - Advanced Nuclear carryover					
FY2026 SBIR/STTR Transfer					

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
-\$0.613 million - SBIR Sec 8151 Reduction		
FY2027 project allocations reflect programmatic adjustments within the RDT&E portfolio to improve resource efficiency.		
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.		

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience				Project (Number/Name) 644861 / Operational Energy			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
644861: Operational Energy	0.000	0.000	34.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.909
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note Distributions: Although FY 2025 reflects \$0.000 million, \$15.135 million of the \$24.597 million for Installation Resiliency was intended and executed for 644861, Operational Energy activities. An adjustment will be made to the prior period at the next opportunity.												
A. Mission Description and Budget Item Justification The Operational Energy projects develop, mature, prototype, and demonstrate technologies, software, and processes focused on optimizing energy usage to maximize combat capability. Activities include the necessary prototyping and technology validation to enable transition of technologies, software, and processes in the areas of (1) Mission Planning and Scheduling Optimization, (2) Mobility Fleet Optimization (including cargo efficiency improvements), (3) Operational Energy Optimization Technologies, and (4) Energy Supply Chain and Logistics. 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 DoW's largest consumer of operational energy, the Department of the Air Force. This program element included all necessary 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, and 0605898F. The FY 2026 spend plan amount for Operational Energy includes \$34.909 million of discretionary and \$102 million of mandatory (reconciliation) for a total of \$136.909 million.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2025	FY 2026	FY 2027	
Title: Operational Energy									0.000	31.409	0.000	
Description: The Operational Energy (OE) project increases combat capability and mitigates operational risk to the warfighter through energy-informed solutions and technologies in the areas of (1) Mission Planning and Scheduling Optimization, (2) Mobility Fleet Optimization (including cargo efficiency improvements), (3) Operational Energy Optimization Technologies , and (4) Energy Supply Chain and Logistics.												
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.												
FY 2026 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Prior year accomplishments include the technology transition of Mobility Fleet scheduling software. - Begin evaluation of KC-135 drag reduction devices. - Initiate technology redesign to improve cargo efficiency. - Continue flight testing of C-130 drag reduction devices. - Continue development and demonstration of drag reductions technologies that improve weapon system capabilities (range, endurance, number of sorties refueled, etc.) - Continue development and demonstration of software focused on simultaneously increasing aircraft availability, optimizing mobility aircraft allocation, and optimizing cargo load planning for strategic airlift assets, air refueling optimization, aerial refueling aircraft availability, and mobile applications to support command and control of mobility aircraft - Continue development and demonstration of low-signature bulk fuel storage for austere locations in parallel with continued operational energy wargaming and assessments of tactical fuel distribution. FY 2027 Plans: No funding requested. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 decreased by \$31.409 million compared to FY 2026 due to programmatic adjustments within the RDT&E portfolio to improve resource efficiency.			
Accomplishments/Planned Programs Subtotals		0.000	31.409
		FY 2025	FY 2026
Congressional Add: Program Increase Operational Energy and Installation Resilience Program		-	3.500
FY 2026 Plans: Conduct Congressional directed effort.			
Congressional Adds Subtotals		-	3.500
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The efforts within this program employ multiple 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 2027 Air Force												Date: April 2026			
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					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		8.250	Mar 2026	-		-		-	Continuing	Continuing	-
Mobility Fleet Optimization	Various	Various : Various	-	-		0.600	Jan 2026	-		-		-	Continuing	Continuing	-
Operational Energy Optimization Technologies	Various	Various : Various	-	-		15.422	Mar 2026	-		-		-	Continuing	Continuing	-
Energy Supply Chain and Logistics	Various	Various : Various	-	-		5.066	Mar 2026	-		-		-	Continuing	Continuing	-
Congressional Add: Operational Energy and Installation Resilience	Various	Various : Various	-	-		3.500	Sep 2026	-		-		-	Continuing	Continuing	-
Estimated SBIR Withhold	Various	Various : Various	-	-		1.018	Mar 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	-		33.856		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		0.456	Oct 2025	-		-		-	0.000	0.456	-
Subtotal			-	-		0.456		-		-		-	0.000	0.456	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		-		-	0.000	0.597	-
Subtotal			-	-		0.597		-		-		-	0.000	0.597	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force										Date: April 2026				
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience					Project (Number/Name) 644861 / Operational Energy				
	Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	-	-		34.909		-		-		-	Continuing	Continuing	N/A	
Remarks														
FY 2025 Operational Energy activities are shown under 644862, Installation Resiliency due to all \$24.597 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects (\$15.135 million for Operational Energy and \$9.462 million for Installation Resiliency). An adjustment will be made to the prior period at the next opportunity.														
FY2026 Cost Category Item "Aircraft Drag Reduction Technologies" renamed to "Operational Energy Optimization Technologies" since operational energy optimization not limited to just aircraft drag reduction.														

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience								Project (Number/Name) 644861 / Operational Energy			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Operational Energy Optimization Technologies																												
All																												
Energy Supply Chain and Logistics																												
All																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2	2027
Mobility Fleet Optimization				
All	1	2025	1	2027
Operational Energy Optimization Technologies				
All	1	2025	3	2027
Energy Supply Chain and Logistics				
All	1	2025	2	2027

Note
FY 2025 Operational Energy activities are shown under 644862, Installation Resiliency due to all \$24.597 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects (\$15.135 million for Operational Energy and \$9.462 million for Installation Resiliency). An adjustment will be made to the prior period at the next opportunity.

FY 2026 Cost Category Item "Aircraft Drag Reduction Technologies" renamed to "Operational Energy Optimization Technologies" starting in FY 2027 since operational energy optimization not limited to just aircraft drag reduction.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
644862: Installation Resiliency	0.000	24.597	46.510	61.000	0.000	61.000	59.000	60.000	60.000	60.000	0.000	371.107
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note Distributions: Although FY 2025 reflects \$24.597 million in funding for Installation Resiliency activities, \$15.135 million was intended and executed for 644861, Operational Energy activities. An adjustment will be made to the prior period at the next opportunity.												
A. Mission Description and Budget Item Justification The Installation Resilience (IR) project ensures continuity of critical missions that require energy availability throughout any potential disruption through the development and demonstration of technologies in the areas of (1) Advanced Nuclear, (2) Resilient Energy Technology, (3) Flightline Modernization, (4) Energy for the Tactical Edge, and (5) Digital Ecosystem for Enhanced Mission Readiness . These energy-focused efforts facilitate implementation of validated solutions that improve energy security and the resilience of Department of the Air Force supporting infrastructure - a critical and integral component of all weapon systems. This program element included all necessary 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, and 0605898F.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2025	FY 2026	FY 2027	
Title: Installation Resilience									24.597	16.010	61.000	
Description: Department of the Air Force Installation Resilience (IR) project ensures continuity of critical missions that require energy availability throughout any potential disruption through the development and demonstration of technologies in the areas of (1) Advanced Nuclear, (2) Resilient Energy Technology, (3) Flightline Modernization, (4) Energy for the Tactical Edge, and (5) Digital Ecosystem for Enhanced Mission Readiness.												
FY 2026 Plans: - Continue development and demonstration of advanced nuclear power for installations to ensure continuity of critical missions throughout any potential disruption. - Continue development and demonstration of processes focused on modernizing the way the DAF collects, stores, curates, connects, analyzes, and conveys the data associated with mission resilience requirements that cross current organizational stovepipes to provide actionable insights and quantitative mission requirements. - Initiate construction activities for the Arctic-Capable Energy Storage System to improve resilience of critical missions with unique load profiles.												

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Continue development and demonstration of energy and water technologies that decouple operations at the tactical edge from reliance on intermittent power and imported water. FY 2027 Plans: Continue development and demonstration of advanced nuclear power for installations to ensure continuity of critical missions throughout any potential disruption. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 increased by \$44.990 million compared to FY 2026 to accelerate advanced nuclear development and demonstration.			
Accomplishments/Planned Programs Subtotals		24.597	16.010
		FY 2025	FY 2026
Congressional Add: Program Increase Air Force Energy		-	10.000
FY 2026 Plans: Conduct Congressionally directed effort			
Congressional Add: Program Increase Expeditionary, Grid-scale, Modular Resilient Power Generation		-	5.000
FY 2026 Plans: Conduct Congressionally directed effort			
Congressional Add: Program Increase Next Generation Integrated Vehicle Power Generation Capability		-	5.000
FY 2026 Plans: Conduct Congressionally directed effort			
Congressional Add: Program Increase Operational Energy and Installation Resilience Program		-	3.500
FY 2026 Plans: Conduct Congressionally directed effort			
Congressional Add: Program Increase Wave Energy in Contested Logistics		-	7.000
FY 2026 Plans: Conduct Congressionally directed effort			
Congressional Adds Subtotals		-	30.500
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The efforts within this program employ multiple 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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604860F / Operational Energy and Installation Resilience				Project (Number/Name) 644862 / Installation Resiliency					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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: Digital Ecosystem for Enhanced Mission Readiness	Various	Various : Various	-	1.423	Apr 2025	1.950	Sep 2026	-		-		-	Continuing	Continuing	-
Installation Resilience: Resilient Energy Technology	Various	Various : Various	-	4.156	Sep 2025	8.613	Sep 2026	-		-		-	Continuing	Continuing	-
Installation Resilience: Energy for the Tactical Edge	Various	Various : Various	-	0.175	Jul 2025	0.711	Sep 2026	-		-		-	Continuing	Continuing	-
Installation Resilience: Advanced Nuclear	Various	Various : Various	-	2.976	Aug 2025	3.572	Sep 2026	59.202	Oct 2026	-		59.202	Continuing	Continuing	-
Congressional Add: Air Force Energy	Various	Various : Various	-	-		10.000	Sep 2026	-		-		-	Continuing	Continuing	-
Congressional Add: Expeditionary, Grid-scale, Modular Resilient Power Generation	Various	Various : Various	-	-		5.000	Sep 2026	-		-		-	Continuing	Continuing	-
Congressional Add: Next Generation Integrated Vehicle Power Generation Capability	Various	Various : Various	-	-		5.000	Sep 2026	-		-		-	Continuing	Continuing	-
Congressional Add: Operational Energy and Installation Resilience Program	Various	Various : Various	-	-		3.500	Sep 2026	-		-		-	Continuing	Continuing	-
Congressional Add: Wave Energy in Contested Logistics	Various	Various : Various	-	-		7.000	Sep 2026	-		-		-	Continuing	Continuing	-
Operational Energy: Mission Planning and Scheduling Optimization	Various	Various : Various	-	3.548	Jul 2025	-		-		-		-	0.000	3.548	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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: Operational Energy Optimization Technologies	Various	Various : Various	-	10.808	Apr 2025	-		-		-		-	0.000	10.808	-
Operational Energy: Energy Supply Chain and Logistics	Various	Various : Various	-	0.417	May 2025	-		-		-		-	0.000	0.417	-
Subtotal			-	23.503		45.346		59.202		-		59.202	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.448	Oct 2024	0.445	Oct 2025	0.910	Oct 2026	-		0.910	0.000	1.803	-
Operational Energy: Direct Cite Authority Civilian Pay	Allot	AFRL : TBD	-	0.362	Oct 2024	-		-		-		-	0.000	0.362	-
Subtotal			-	0.810		0.445		0.910		-		0.910	0.000	2.165	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.284	Jun 2025	0.719	Jun 2026	0.888	Jun 2027	-		0.888	0.000	1.891	-
Subtotal			-	0.284		0.719		0.888		-		0.888	0.000	1.891	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	24.597		46.510		61.000		-		61.000	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force							Date: April 2026			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)		Project (Number/Name)				
3600 / 4				PE 0604860F / Operational Energy and Installation Resilience		644862 / Installation Resiliency				
	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks FY 2025 Operational Energy activities are being shown here due to all \$24.597 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects (\$15.135 million for Operational Energy and \$9.462 million for Installation Resiliency). An adjustment will be made to the prior period at the next opportunity. Previous Cost Category Item "Installation Resilience: Mission Resilience Digital Transformation" renamed to "Installation Resilience: Digital Ecosystem for Enhanced Mission Readiness" to be more descriptive of the activities pursued.										

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Digital Ecosystem for Enhanced Mission Readiness																												
All																												
Resilient Energy Technology																												
All																												
Energy for the Tactical Edge																												
All																												
Advanced Nuclear																												
All																												
Program Increase Air Force Energy																												
All																												
Program Increase Expeditionary, Grid-Scale, Modular Resilient Power Generation																												
All																												
Program Increase Next Generation Integrated Vehicle Power Generation Capability																												
All																												
Program Increase Operational Energy and Installation Resilience Program																												
All																												
Program Increase Wave Energy in Contested Logistics																												
All																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force

Date: April 2026

Appropriation/Budget Activity

3600 / 4

R-1 Program Element (Number/Name)

PE 0604860F / Operational Energy and Installation Resilience

Project (Number/Name)

644862 / Installation Resiliency

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Digital Ecosystem for Enhanced Mission Readiness				
All	1	2025	2	2027
Resilient Energy Technology				
All	1	2025	2	2027
Energy for the Tactical Edge				
All	1	2025	2	2027
Advanced Nuclear				
All	1	2025	4	2031
Program Increase Air Force Energy				
All	4	2026	4	2028
Program Increase Expeditionary, Grid-Scale, Modular Resilient Power Generation				
All	4	2026	4	2028
Program Increase Next Generation Integrated Vehicle Power Generation Capability				
All	4	2026	4	2028
Program Increase Operational Energy and Installation Resilience Program				
All	4	2026	4	2028
Program Increase Wave Energy in Contested Logistics				
All	4	2026	2	2028

Note

FY 2025 Operational Energy activities are being shown here due to all \$24.597 million of appropriated funds being shown as for 644862, Installation Resiliency vice distributed between the projects (\$15.135 million for Operational Energy and \$9.462 million for Installation Resiliency). An adjustment will be made to the prior period at the next opportunity.

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
3600 / 4	PE 0604860F / Operational Energy and Installation Resilience	644862 / Installation Resiliency
Previous Cost Category Item "Installation Resilience: Mission Resilience Digital Transformation" renamed to "Installation Resilience: Digital Ecosystem for Enhanced Mission Readiness" to be more descriptive of the activities pursued.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	6.891	11.874	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.765
640010: Next Generation Air-refueling System (NGAS)	0.000	6.891	11.874	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.765
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2027, Program Element (PE) 0605057F, Next Generation Air-refueling System, Project 640010, NGAS efforts were transferred to PE 0604343F, Advanced Tanker Systems (ATS), Project 640013, Advanced Tanker Systems, in order to continue developing and integrating platform-agnostic systems that comply with military open-source architecture standards to ensure rapid adaptability and interoperability across platforms.

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. The FY 2024 Analysis of Alternatives (AoA) provided conclusions that tankers will need to be more survivable to operate in a contested environment to include but not limited to examining the effectiveness and affordability of more resilient, connected, and survivable tanker systems.

The Next Generation Air-refueling System (NGAS) program will develop more advanced capabilities to allow tankers to operate in a more contested environment. 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 2027, NGAS will continue modeling and simulation support, planning for transition of new technologies for resilient connectivity and survivability (mission systems), and further market research. The Future Tankers System Program Office (SPO) will evaluate, research and pursue cost versus capability analysis, updated tanker models and high-fidelity modeling and simulation to further exercise joint warfighting concepts and plans. NGAS program Research, Development and Test (RDT&E) funding will allow for continued concept refinement and early risk reduction efforts to support continued requirements development and identify refined system 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 included all necessary 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, and 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 2027 Air Force				Date: April 2026	
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			
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	7.014	12.960	0.000	0.000	0.000
Current President's Budget	6.891	11.874	0.000	0.000	0.000
Total Adjustments	-0.123	-1.086	0.000	0.000	0.000
• 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	0.000	0.000			
• SBIR/STTR Transfer	-0.123	-0.086			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000
Change Summary Explanation					
FY 2025 budget request decreased by \$0.123 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).					
FY 2026 budget request decreased by a total of \$1.086 million due to a Congressional Directed Reduction of \$1.000 million for Program Carryover and \$0.086 million for Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).					
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.					
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027		
Title: Studies and Analysis	0.100	5.692	0.000		
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 2026 Plans: Studies and Analysis activities as determined by the AoA which include but are not limited to market research, development planning, Modeling and Simulation, Studies and Analysis, and excursions based on completed AoA data. Plans also include improved modeling environments and tools to account for tanker survivability concepts, iterative design, engineering and integration studies for modular and integrated mission systems onto multiple legacy and future tanker development efforts.					
FY 2027 Plans:					

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0605057F / <i>Next Generation Air-refueling System</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
N/A				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due transfer of efforts to Program Element, 0604343F, Advanced Tanker Systems (ATS), Project 640013, ATS.				
Title: NGAS Direct Mission Support		6.791	6.182	0.000
Description: Future Tanker Program Office support will continue developmental planning activities, market research, mission support, as well as acquisition planning and documentation activities.				
FY 2026 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 2027 Plans: N/A				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due transfer of efforts to Program Element, 0604343F, Advanced Tanker Systems (ATS), Project 640013, ATS.				
Accomplishments/Planned Programs Subtotals		6.891	11.874	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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 & Analysis	Various	Not specified. : TBD	-	2.975	Jun 2025	5.692	Jan 2026	-		-		-	0.000	8.667	-
Subtotal			-	2.975		5.692		-		-		-	0.000	8.667	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Civ Pay	RO	AFLCMC : WPAFB, OH	-	1.530	Oct 2024	0.956	Oct 2025	0.000	Oct 2026	-		0.000	0.000	2.486	-
Direct Mission Support	Various	AFLCMC : WPAFB, OH	-	2.386	Oct 2024	5.226	Oct 2025	0.000	Oct 2026	-		0.000	0.000	7.612	-
Subtotal			-	3.916		6.182		0.000		-		0.000	0.000	10.098	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	6.891		11.874		0.000		-		0.000	0.000	18.765	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0605057F / Next Generation Air-refueling System					640010 / Next Generation Air-refueling System (NGAS)			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
NGAS Analysis of Alternatives																												
NGAS Concept Refinement																												
NGAS Studies and Analysis																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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				
NGAS Analysis of Alternatives	1	2025	1	2025
NGAS Concept Refinement	1	2025	4	2026
NGAS Studies and Analysis	2	2025	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0605164F I Air Refueling Capability Modernization							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	13.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
645164: Continued Tanker Recapitalization RDT&E	0.000	13.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
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. In FY 2027, PE 0401221F, KC-46A Tanker Squadrons, Project 650013, changed from Tanker Production Extension to KC-46A Production Extension (PEx).

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.

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 included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	13.661	0.000	0.000	0.000	0.000	
Current President's Budget	13.600	0.000	0.000	0.000	0.000	
Total Adjustments	-0.061	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	-0.061	0.000				
• Other Adjustments	0.000	0.000	0.000	0.000	0.000	
Change Summary Explanation						
FY 2025 budget request decreased by \$0.061 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Support				13.600	0.000	0.000
Description: DCA and PSC to support the Acquisition Strategy Panel for KC-46 Program Extension.						
FY 2026 Plans: N/A						
FY 2027 Plans: NA						
FY 2026 to FY 2027 Increase/Decrease Statement: NA						
Accomplishments/Planned Programs Subtotals				13.600	0.000	0.000
D. Other Program Funding Summary (\$ in Millions)						
N/A						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0605164F I Air Refueling Capability Modernization
D. Other Program Funding Summary (\$ in Millions)		
Remarks 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. In FY 2027, PE 0401221F, KC-46A Tanker Squadrons, Project 650013, changed from Tanker Production Extension to KC-46A Production Extension (PEX).		
E. Acquisition Strategy N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	RO	Not specified. : TBD	-	10.265	Oct 2024	-		-		-		-	0.000	10.265	-
Program Support Costs	Various	Not specified. : TBD	-	3.335	Oct 2024	-		-		-		-	0.000	3.335	-
Subtotal			-	13.600		-		-		-		-	0.000	13.600	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	13.600		-		-		-		-	0.000	13.600	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Concept Refinement																												
Technology Maturation and Risk Reduction																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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
<i>Tanker Recap Development</i>				
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 2027 Air Force										Date: April 2026		
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 Nuclear Enterprise Research & Development							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	94.782	1.105	0.000	1.105	1.105	1.103	1.101	1.124	Continuing	Continuing
646020: Commercial Capabilities Integration and Transition (CCIT)	0.000	0.000	94.782	1.105	0.000	1.105	1.105	1.103	1.101	1.124	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 Office of the Secretary of War (OSW) in rapid prototyping and experimentation activities. Additionally, Commercial Capabilities Integration & Transition partners with various agencies to include Air Force Research Laboratory, Defense Innovation Unit, OSW R&E, Rapid Defense Experimentation Reserve, and Defense Innovation Accelerator, Federally Funded Research and Development Centers, National Nuclear Security Administration 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 artificial intelligence/machine learning, quantum, cyber, advanced communications/networks, advanced propulsion, directed energy, training systems, etc.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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 Nuclear Enterprise Research & Development				
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	1.097	0.000	0.000	0.000
Current President's Budget		0.000	94.782	1.105	0.000	1.105
Total Adjustments		0.000	93.685	1.105	0.000	1.105
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	93.700			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	-0.015			
• Other Adjustments		0.000	0.000	1.105	0.000	1.105
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 646020: Commercial Capabilities Integration and Transition (CCIT)						
Congressional Add: B-52 Agile Pod						
Congressional Add: B-52 Modernization and Sustainment Technologies Development						
Congressional Add: Assessment for Future Investments						
Congressional Add: Advanced Fuels Development						
Congressional Add: Bomber Generation Tracking Automation Software						
Congressional Add: Legacy Weapon System Software Modernization						
Congressional Add Subtotals for Project: 646020						
Congressional Add Totals for all Projects						
Change Summary Explanation						
FY26: Congressional Add (93.700M) // SBIR Reduction (-0.015M)						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Commercial Capabilities Integration & Transition				-	1.082	1.105

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0606004F / <i>Nuclear Enterprise Research & Development</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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 2027 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 2026 to FY 2027 Increase/Decrease Statement: 2026 to 2027 increase due to inflation.				
Accomplishments/Planned Programs Subtotals		-	1.082	1.105
		FY 2025	FY 2026	
Congressional Add: B-52 Agile Pod		-	15.000	
FY 2026 Plans: Build on the 2025 AFRL contract to enhance the FORGE prototype currently being developed by adding insertion of Artificial Intelligence/Machine Learning capabilities, new hardware sets, an improved operating system, software/hardware integration lab testing, final developmental flight testing, validation and verification, and initial aircraft integration.				
Congressional Add: B-52 Modernization and Sustainment Technologies Development		-	29.700	
FY 2026 Plans: Continue to execute innovative projects aimed at integrating the best commercial capabilities into the Air Force Global Strike Command mission set as well as access the best and most innovative technologies with a key focus on Beyond line-of-sight communications, data integration and processing, and directed energy technologies.				
Congressional Add: Assessment for Future Investments		-	29.000	
FY 2026 Plans: Continue to identify mission needs and allow commercial companies an opportunity show their technologies for future development. Funding will be used to demonstrate/prototype commercial technology in military use cases to advance useability in the operational environment. Focus areas will be directed energy prototyping, quantum sensing, tactical network experimentation, and reusable flight test vehicles.				
Congressional Add: Advanced Fuels Development		-	10.000	

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026	
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 0606004F <i>I Nuclear Enterprise Research & Development</i>	
		FY 2025	FY 2026
FY 2026 Plans: Further testing and integration of the synthetic endothermic fuel developed for B-52 altitude enhancement into high-speed applications. Testing freeze-point, viscosity, thrust, and emissions within appropriate small-scale engines to characterize performance expectations relevant to B-52 Operations.			
Congressional Add: Bomber Generation Tracking Automation Software FY 2026 Plans: Complete development and field the B-52 automated bomber generation tracking tool, LineSync, within a Cloud One Impact-Level 6 environment.		-	5.000
Congressional Add: Legacy Weapon System Software Modernization FY 2026 Plans: Work to complete development and field the B-52 automated bomber generation tracking tool, LineSync, within a Cloud One Impact-Level 6 environment by modernizing the historically manual and outdated process of using checklists, handwritten data entry, and radio calls, by centralizing and incorporating data into a near-real time (NRT) situational awareness tool.		-	5.000
Congressional Adds Subtotals		-	93.700
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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0606004F / <i>Nuclear Enterprise Research & Development</i>						Project (Number/Name) 646020 / <i>Commercial Capabilities Integration and Transition (CCIT)</i>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Fuel Development	SS/FP	various : TBD	-	-		10.000	Jul 2026	-		-		-	Continuing	Continuing	-
AgilePod Software Development	SS/FP	Various : TBD	-	-		15.000	Jun 2026	-		-		-	Continuing	Continuing	-
Bomber Generation Tracking Automation Software	SS/FP	Various : TBD	-	-		5.000	Jun 2026	-		-		-	Continuing	Continuing	-
Legacy Weapon System Software Modernization	SS/FP	Various : TBD	-	-		5.000	Jun 2026	-		-		-	Continuing	Continuing	-
Air Card Development	Various	various : TBD	-	-		1.500	Aug 2026	-		-		-	Continuing	Continuing	-
PHASER	MIPR	various : TBD	-	-		5.000	Aug 2026	-		-		-	Continuing	Continuing	-
Diamond Tiger	MIPR	various : TBD	-	-		3.000	Jun 2026	-		-		-	Continuing	Continuing	-
SDR Prototype	C/CPFF	Various : TBD	-	-		4.000	Sep 2026	-		-		-	Continuing	Continuing	-
Quantum Sensing Enabled Drone	SS/FP	various : TBD	-	-		0.500	Sep 2026	-		-		-	Continuing	Continuing	-
Directed Energy Prototyping	Various	Not specified. : TBD	-	-		3.000	Jul 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	-		52.000		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Rapid Strike Systems Analysis	Various	Various : TBD	-	-		1.500	Aug 2026	-		-		-	Continuing	Continuing	-
Data Analytics	SS/FP	Various : TBD	-	-		3.000	Jun 2026	-		-		-	Continuing	Continuing	-
STRATAR Prototype Optimization	MIPR	Various : TBD	-	-		2.000	Jul 2026	-		-		-	Continuing	Continuing	-
Nuclear Workshop Pilot	SS/FP	Various : TBD	-	-		1.500	May 2026	-		-		-	Continuing	Continuing	-
Open ARCHR Computing Boxes	C/TBD	Various : TBD	-	-		6.700	Sep 2026	-		-		-	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0606004F / <i>Nuclear Enterprise Research & Development</i>						Project (Number/Name) 646020 / <i>Commercial Capabilities Integration and Transition (CCIT)</i>			
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AgilePod Cases	C/TBD	Various : TBD	-	-		5.000	Sep 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	-		19.700		-		-		-	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AgilePod Integration and Test	C/FP	Various : TBD	-	-		3.000	Jul 2026	-		-		-	Continuing	Continuing	-
Multi-role KDC-10 Experimentation	C/FP	Various : TBD	-	-		1.000	Jun 2026	-		-		-	Continuing	Continuing	-
Tactical Network Communication Experimentation	C/FP	various : TBD	-	-		5.000	Sep 2026	-		-		-	Continuing	Continuing	-
Advanced Test Vehicles	Various	Not specified. : TBD	-	-		4.000	Sep 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	-		13.000		-		-		-	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Support Services	Various	Not specified. : TBD	-	-		10.082	Sep 2026	1.105	Mar 2027	-		1.105	Continuing	Continuing	-
Subtotal			-	-		10.082		1.105		-		1.105	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		94.782		1.105		-		1.105	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026							
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0606004F / Nuclear Enterprise Research & Development								Project (Number/Name) 646020 / Commercial Capabilities Integration and Transition (CCIT)							

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0606004F / Nuclear Enterprise Research & Development	Project (Number/Name) 646020 / Commercial Capabilities Integration and 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	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0606005F I Digital Transformation Office							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	19.227	73.478	183.398	0.000	183.398	196.045	200.247	100.154	103.599	0.000	876.148
643316: Digital Transformation Office	0.000	19.227	73.478	183.398	0.000	183.398	196.045	200.247	100.154	103.599	0.000	876.148
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0606005F, project 643316, Enterprise Digital Environment, is a new start.

This program, BA 4, PE 0606005F, project 643316, Enterprise Electronics Digital Environment (E2DE), is a new start.

A. Mission Description and Budget Item Justification

The Digital Transformation Office (DTO) 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 Department of Air Force (DAF) by providing access to cloud-hosted tools to empower the acquisition workforce.

This program element included all necessary 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 Operations and Maintenance program element 0901212F.

The Digital Transformation Office, received a Congressional Add for FY2026 4.000 million for Platform Visualization Tools for Multi-Domain Threat Analysis. Upon Congressional spend plan approval, an Internal Reprogramming (IR) will be processed aligning the funding to PE 0604317F for proper execution.

The Digital Transformation Office, received a Congressional Add for FY2026 2.000 million for Next Generation Aircraft Surface Inspections. Upon Congressional spend plan approval, an Internal Reprogramming (IR) will be processed aligning the funding to PE 0606004F for proper execution.

The Digital Transformation Office, received a Congressional Add for FY2026 2.000 million for Digital Transformation Office. Upon Congressional spend plan approval, an Internal Reprogramming (IR) will be processed aligning the funding to PE 0604317F for proper execution.

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 2027 Air Force				Date: April 2026	
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 0606005F I Digital Transformation Office			
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	9.800	15.997	0.000	0.000	0.000
Current President's Budget	19.227	73.478	183.398	0.000	183.398
Total Adjustments	9.427	57.481	183.398	0.000	183.398
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-1.300			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	59.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	10.150	0.000			
• SBIR/STTR Transfer	-0.723	-0.219			
• Other Adjustments	0.000	0.000	183.398	0.000	183.398
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 643316: Digital Transformation Office					
Congressional Add: Digital Thread Capabilities					
Congressional Add: Adaptive Threat Modeling Lab					
Congressional Add: Cyber Defense Innovation, Research and Workforce					
Congressional Add: Digital-First Ecosystem Scaling					
Congressional Add: File Rights Management					
Congressional Add: Secure Document Generation					
Congressional Add: Digital Transformation Office					
Congressional Add: Next Generation Aircraft Surface Inspections					
Congressional Add: Platform Visualization Tools for Multi-Domain Threat Analysis					
Congressional Add Subtotals for Project: 643316					
Congressional Add Totals for all Projects					
Change Summary Explanation					
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.					

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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		
In FY2025, reprogrammed congressional add \$10.000 million from PE 0603211F / Aerospace Technology Dev/Demo to this program for proper alignment for execution.				
In FY2026, Congressional directed reduction of \$1.300 million due to ahead of need.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: LaunchPad		9.592	14.478	20.429
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 2026 Plans: LaunchPad 2.0 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 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, and user acceptance testing.				
FY 2027 Plans: Efforts will establish seamless connection across commercial tools in LaunchPad to reduce manual efforts, improve efficiency, and add capability across the acquisition lifecycle. LaunchPad 2.0 will continue access to additional data sources across the Department of Air Force (DAF) data ecosystem. This includes developing new data connections beyond High Performance Computing (HPC) and Product Lifecycle Management (PLM), establishing seamless access to critical information at the right resources to inform automated workflows. A key focus will be enabling enhanced industry collaboration, removing the requirement for a common access card (CAC), through a rapid deployment capability for temporary instances, providing secure access to real-time models and data for partnered engagements with the DAF. These instances can be efficiently spun down, ensuring data security and minimizing resource consumption. A fully implemented continuous improvement/continuous development (CI/CD) pipeline allow for new software and capabilities, coupled with a flexible framework for self-customized functional specific deployments.				
FY 2026 to FY 2027 Increase/Decrease Statement:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0606005F / <i>Digital Transformation Office</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
FY 2027 increased compared to FY 2026 by \$5.951 million due to planned capability development and increase usage (users, compute and store of data).				
Title: Enterprise Digital Environment Description: The Enterprise Digital Environment (EDE) represents a critical investment to accelerate capability development planning, weapon system design, delivery, and modernization efforts. The EDE will establish a multi-level security, integrated digital analytic ecosystem to conduct Mission Engineering, Modeling and Simulation (M&S), Science and Technology (S&T), Acquisition, Test & Evaluation, among stakeholders (e.g., acquisition community, end users, testers, industry) across system lifecycle phases and functions. Enterprise Digital Environment leverages existing capabilities that support Digital Engineering, Digital Product Lifecycle Management, mass data storage, Modeling and Simulation, Cloud Computing, and High Performance Compute at multiple classification levels, and delivers integrating capabilities for automated access to data across control unclassified information (CUI), collateral, Sensitive Compartmented Information (SCI) and Special Access Program (SAP) boundaries and cost efficiencies by establishing common services across systems. FY 2026 Plans: Not applicable. FY 2027 Plans: Establish the foundational Enterprise Common Services and governance structure for the EDE. • Implement data ingress/egress services from cloud service providers • Set up data transfer capabilities across approved Cross Domain Solutions (CDS) and expand existing CDS capabilities to support additional data formats • Establish governance and management frameworks for digital environments at various security levels • Deploy common tools and procedures across platforms Develop and implement the initial data management framework necessary for cross-domain collaboration, including: • Initial data transfer and migration capabilities • File repository infrastructure with associated compute and storage resources • Platform integration and cybersecurity support • Deployment of data collaboration environments Expand upon Modeling & Simulation capabilities: • Develop and deploy Modeling and Simulation Capabilities coupled with artificial intelligence garnering better efficiency for Air Force, Department of the Air Force, and Joint Force		-	0.000	62.969

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0606005F <i>I Digital Transformation Office</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
• Provide users common interfaces across multiple types of compute in support of multiple workflows focused on modeling and simulation, analysis, and artificial intelligence • Drive integration of Department of Air Force (DAF) and Department of War (DoW) Modeling and Simulation communities with Digital Materiel Management and broader acquisition and test communities • Enhance sharing of models to reduce rework across AF, DAF, and DoW; to include facilitating the sharing of authoritative models developed and distributed by Intelligence Community • Develop core software and interfaces to allow users to leverage existing government resources (such as High Performance Computing Modernization Program) as well as Enterprise agreements with cloud computing providers to reduce cost to execute analysis Identify and resource pathfinder programs to implement Cloud-Based Multi-Level Security networks: • Set up required compute and storage infrastructure and integrate new tools • Develop unclassified configuration templates with required infrastructure and licenses • Create "jump start" environments for rapid on-boarding and testing for adopting programs • Provide help desk and account administration services • Implement Authority to Operate (ATO) processes • Establish connections between development and operational networks (e.g. battle network, sustainment software pipelines, rapid reprogramming, mission planning) FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 increased compared to FY 2026 by 62.969 million due to introducing a new Enterprise Digital Environment thrust area. Enterprise Digital Environment will create a secure digital ecosystem across all classification levels that connects warfighters to the development process, ensuring capabilities are better designed and integrated across the enterprise.				
Title: Enterprise Electronics Digital Environment (E2DE) Description: Enterprise Electronics Digital Environment (E2DE) focuses on deploying and maintaining an enterprise cloud hosted commercial Electronics Design Automation (EDA) tool platform in a secure web-based environment at Controlled Unclassified Information (CUI) and Secret levels. Program of Record pilots operate on the E2DE infrastructure for acceleration of integration of new capability and modernization of existing systems. Tools to be made available: EDA Tools: Cadence, Siemens, Synopsys		-	0.000	100.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0606005F <i>I Digital Transformation Office</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Emulation Tools: Palladium/Protium, Zebu/HAPS Veloce, Millenium				
FY 2026 Plans: Not applicable.				
FY 2027 Plans: - Expand F-35 Rapid Execution of Microelectronics Digital Engineering (REMEDE) Digital Electronics Systems Engineering (DESE) infrastructure to support the DoW enterprise including secure cloud (IL-5) with elastic compute - Acquire and deploy Electronic Design Automation tools, hardware emulation, multi-physics compute, and expert services for program of record use - Construct persistent hybrid repositories for Department of War electronics designs that enable analysis and evaluation of electronic system elements for safety, security, and modernization - Initiate program of record pilots that integrate modern commercial electronic development analysis processes to increase quality of designs, speed modernization of systems and reduce the cost and schedule the integration of new capabilities				
FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 increased compared to FY 2026 by 100.000 million due to introducing a new Enterprise Electronics Digital Environment (E2DE) thrust area. Enterprise Electronics Digital Environment will enable rapid and collaborative development of advanced electronics capabilities needed to outpace our adversaries.				
Accomplishments/Planned Programs Subtotals		9.592	14.478	183.398
		FY 2025	FY 2026	
Congressional Add: Digital Thread Capabilities		9.635	0.000	
FY 2025 Accomplishments: Conducted congressionally directed effort.				
FY 2026 Plans: Not applicable.				
Congressional Add: Adaptive Threat Modeling Lab		0.000	18.000	
FY 2025 Accomplishments: Not applicable.				
FY 2026 Plans: Conduct congressionally directed effort.				
Congressional Add: Cyber Defense Innovation, Research and Workforce		0.000	11.000	

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026	
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 0606005F <i>I Digital Transformation Office</i>	
		FY 2025	FY 2026
FY 2025 Accomplishments: Not applicable.			
FY 2026 Plans: Conduct congressionally directed effort.			
Congressional Add: Digital-First Ecosystem Scaling		0.000	5.000
FY 2025 Accomplishments: Not applicable.			
FY 2026 Plans: Conduct congressionally directed effort.			
Congressional Add: File Rights Management		0.000	5.000
FY 2025 Accomplishments: Not applicable.			
FY 2026 Plans: Conduct congressionally directed effort.			
Congressional Add: Secure Document Generation		0.000	12.000
FY 2025 Accomplishments: Not applicable.			
FY 2026 Plans: Conduct congressionally directed effort.			
Congressional Add: Digital Transformation Office		0.000	2.000
FY 2025 Accomplishments: Not applicable.			
FY 2026 Plans: Conduct congressionally directed effort.			
Congressional Add: Next Generation Aircraft Surface Inspections		0.000	2.000
FY 2025 Accomplishments: Not applicable.			
FY 2026 Plans: Conduct congressionally directed effort.			
Congressional Add: Platform Visualization Tools for Multi-Domain Threat Analysis		0.000	4.000
FY 2025 Accomplishments: Not applicable.			
FY 2026 Plans: Conduct congressionally directed effort.			
Congressional Adds Subtotals		9.635	59.000
D. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
E. Acquisition Strategy LaunchPad: Acquisition strategy is to use incremental and collaborative strategy by leveraging an existing Time & Materials (T&M) contract with plans for a new award. Enterprise Digital Environment: Acquisition strategy is to use incremental and collaborative approach by utilizing various existing partner contracts and establishing new ones where needed. Enterprise Electronics Digital Environment: Acquisition strategy is to use incremental and collaborative strategy, leveraging existing contracts with multiple partners and creating new contracts for specific vendor requirements.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LaunchPad	C/CPFF	Various : Reston, VA	-	9.592	Mar 2025	14.478	Apr 2026	20.429	Nov 2026	-		20.429	Continuing	Continuing	-
Enterprise Digital Environment	C/FFP	Various : Various	-	-		-		62.969	Mar 2027	-		62.969	Continuing	Continuing	-
Enterprise Electronics Digital Environment	C/FFP	Various : Various	-	-		-		100.000	Mar 2027	-		100.000	Continuing	Continuing	-
Digital Thread Capabilities	SS/FFP	ISTARI : Washington DC	-	9.635	Jan 2026	-		-		-		-	Continuing	Continuing	-
Adaptive Threat Modeling	TBD	TBD : TBD	-	-		18.000	Jul 2026	-		-		-	Continuing	Continuing	-
Cyber Defense Innovation, Research and Workforce	TBD	TBD : TBD	-	-		11.000	Jul 2026	-		-		-	Continuing	Continuing	-
Digital-First Ecosystem Scaling	TBD	TBD : TBD	-	-		5.000	Jul 2026	-		-		-	Continuing	Continuing	-
File Rights Management	TBD	TBD : TBD	-	-		5.000	Jul 2026	-		-		-	Continuing	Continuing	-
Secure Document Generation	TBD	TBD : TBD	-	-		12.000	Jul 2026	-		-		-	Continuing	Continuing	-
Digital Transformation Office	TBD	TBD : TBD	-	-		2.000	Jul 2026	-		-		-	Continuing	Continuing	-
Next Generation Aircraft Surface Inspections	TBD	TBD : TBD	-	-		2.000	Jul 2026	-		-		-	Continuing	Continuing	-
Platform Visualization Tools	TBD	TBD : TBD	-	-		4.000	Jul 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	19.227		73.478		183.398		-		183.398	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	19.227		73.478		183.398		-		183.398	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0606005F / Digital Transformation Office					643316 / Digital Transformation Office			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Digital Transformation Office																												
LaunchPad																												
Enterprise Digital Environment																												
Enterprise Electronics Digital Environment																												
Congressional Adds																												
Digital Thread Capabilities																												
Adaptive Threat Modeling																												
Cyber Defense Innovation, Research and Workforce																												
Digital-First Ecosystem Scaling																												
File Rights Management																												
Secure Document Generation																												
Digital Transformation Office																												
Next Generation Aircraft Surface																												
Platform Visualization Tools																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0606005F / <i>Digital Transformation Office</i>	Project (Number/Name) 643316 / <i>Digital Transformation Office</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Digital Transformation Office</i>				
LaunchPad	2	2025	4	2031
Enterprise Digital Environment	2	2027	4	2031
Enterprise Electronics Digital Environment	2	2027	4	2029
<i>Congressional Adds</i>				
Digital Thread Capabilities	4	2026	4	2028
Adaptive Threat Modeling	4	2026	4	2028
Cyber Defense Innovation, Research and Workforce	4	2026	4	2028
Digital-First Ecosystem Scaling	4	2026	4	2028
File Rights Management	4	2026	4	2028
Secure Document Generation	4	2026	4	2028
Digital Transformation Office	4	2026	4	2028
Next Generation Aircraft Surface	4	2026	4	2028
Platform Visualization Tools	4	2026	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	2,341.899	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
646007: <i>Next Generation Air Dominance (NGAD) Platform</i>	0.000	2,341.899	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Note

In FY 2026, 494.896 million in Project 647123 was transferred to Program 0207147F, Project 640017 in order to align with Congressional intent to separate CCA from the F-47 program.

In FY 2026, 3189.315 million in Project 646007 was transferred from BA 4 to BA 5, Program 0207110F, Project 656009 due to the award of the F-47 Engineering and Manufacturing Development (EMD) contract.

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 DoW systems based on emerging threats, AF priorities, and development capacity.

Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	2,424.208	0.000	0.000	0.000	0.000
Current President's Budget	2,341.899	0.000	0.000	0.000	0.000
Total Adjustments	-82.309	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	-82.309	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000
Change Summary Explanation					
FY25 adjustment for Small Business Innovative Research (SBIR) of -\$82.309 million					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
646007: Next Generation Air Dominance (NGAD) Platform	0.000	2,341.899	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
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 Next Generation Air Dominance (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 reference 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 Department of War (DoW) systems based on emerging threats, AF priorities, and development capacity.

Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

This program element included all necessary 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, and 0605898F.

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

	FY 2025	FY 2026	FY 2027
Title: 2030+ Air Dominance	2,341.899	0.000	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.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
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 experimentation and prototyping efforts. Finally, technical overviews were presented to the Air Force - Scientific Advisory Board (AF-SAB) and other senior leaders. <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 2027 Plans:</i> N/A <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> N/A			
Accomplishments/Planned Programs Subtotals		2,341.899	0.000
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2,227.421		-		-		-		-	0.000	2,227.421	-
Subtotal			-	2,227.421		-		-		-		-	0.000	2,227.421	N/A
Remarks Contractual specifics are not available at this level of security classification.															
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	114.478		-		-		-		-	0.000	114.478	-
Subtotal			-	114.478		-		-		-		-	0.000	114.478	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2,341.899		-		-		-		-	0.000	2,341.899	N/A
Remarks 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. 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 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
FY26 Strategic Planning Choices Presented																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2025	4	2025
Integration Studies	1	2025	4	2025
Technology Risk Reduction / Prototyping	1	2025	3	2025
Engineering and Manufacturing Development	2	2025	4	2025
FY26 Strategic Planning Choices Presented	1	2025	1	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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>Collaborative Combat Aircraft</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	688.492	150.574	1,373.740	0.000	1,373.740	948.982	1,069.030	1,370.091	1,300.574	Continuing	Continuing
640017: <i>Collaborative Combat Aircraft</i>	0.000	688.492	150.574	1,373.740	0.000	1,373.740	948.982	1,069.030	1,370.091	1,300.574	Continuing	Continuing

Note

In FY 2025, Program 0207110F, F-47, Project 647123, Collaborative Combat Aircraft efforts were transferred to Program 0207147F, Collaborative Combat Aircraft, Project 640017, Collaborative Combat Aircraft, in order to meet congressional intent to separate Collaborative Combat Aircraft from F-47.

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, propulsion development, integrated weapons systems development, demonstration of air superiority related technologies, multi-level prototyping, digital systems infrastructure, 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 War systems based on emerging threats, Air Force priorities, and development capacity.

FY25 was rescinded 8.019 million and is not reflected in this budget documentation.

The FY 2026 spend plan amount for Research, Development, Test, and Evaluation includes \$150,574 thousand of discretionary and \$676,750 thousand of mandatory (reconciliation) for a total of \$827,324 thousand.

Funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

Funding may be used to resolve Diminishing Manufacturing Sources and Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect schedule, and engineering efforts.

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 2027 Air Force			Date: April 2026			
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 0207147F I Collaborative Combat Aircraft				
This program element included all necessary 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, and 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		711.747	111.365	0.000	0.000	0.000
Current President's Budget		688.492	150.574	1,373.740	0.000	1,373.740
Total Adjustments		-23.255	39.209	1,373.740	0.000	1,373.740
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	40.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-23.255	-0.791			
• Other Adjustments		0.000	0.000	1,373.740	0.000	1,373.740
Congressional Add Details (\$ in Millions, and Includes General Reductions)					FY 2025	FY 2026
Project: 640017: Collaborative Combat Aircraft						
Congressional Add: Classified Adjustment					0.000	40.000
Congressional Add Subtotals for Project: 640017					0.000	40.000
Congressional Add Totals for all Projects					0.000	40.000
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
FY2025 adjustment of -\$23.255 million for Small Business Innovative Research (SBIR)						
FY2026 adjustment of -\$0.791 for SBIR; add of \$40 million for Congressional Classified adjustment						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640017: Collaborative Combat Aircraft	0.000	688.492	150.574	1,373.740	0.000	1,373.740	948.982	1,069.030	1,370.091	1,300.574	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2025, PE 0207110F, Next Generation Air Dominance, Project 647123, Collaborative Combat Aircraft efforts were 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.

Quantities are not listed to comply with Security Classification Guide.

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 DoW systems based on emerging threats, AF priorities, and development capacity.

The FY 2026 spend plan amount for Research, Development, Test, and Evaluation includes 150.574 million of discretionary and 676.750 million of mandatory (reconciliation) for a total of 827.324 million.

Funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

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 2027 Air Force		Date: April 2026	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207147F / Collaborative Combat Aircraft	Project (Number/Name) 640017 / Collaborative Combat Aircraft	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
Title: Collaborative Combat Aircraft 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, integration, test, prototyping, demonstrations, and crewed systems integration to reduce risk and mature CCA concepts and air superiority related technologies. FY 2026 Plans: 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. FY 2027 Plans: Collaborative Combat Aircraft will continue to conduct studies and analyses, identify technology candidates, execute concept refinement activities, execute technology maturation and risk reduction activities, execute engineering and manufacturing development 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. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased for acceleration of additional capability development.		688.492	110.574
Accomplishments/Planned Programs Subtotals		688.492	110.574
		FY 2025	FY 2026
Congressional Add: Classified Adjustment		0.000	40.000
FY 2025 Accomplishments: Not applicable			
FY 2026 Plans: Details available at a higher classification level.			
Congressional Adds Subtotals		0.000	40.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207147F / Collaborative Combat Aircraft	Project (Number/Name) 640017 / Collaborative Combat Aircraft

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 2027 Air Force												Date: April 2026				
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total		
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	668.337		78.434		1,300.160		-		1,300.160	Continuing	Continuing	-	
Subtotal			-	668.337		78.434		1,300.160		-		1,300.160	Continuing	Continuing	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total		
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	20.155		72.140		73.580		-		73.580	Continuing	Continuing	-	
Subtotal			-	20.155		72.140		73.580		-		73.580	Continuing	Continuing	N/A	
Remarks																
CCA acquisition support includes but is not limited to A&AS, civilian pay, supplies, and facility related expenses.																
Our budget was mostly Mandatory in FY26 and all acquisition support costs were assessed to discretionary. FY26 includes a late in calendar year 2025 award of our A&AS contract and projected civilian pay costs. This accounts for the one-year spike in costs for CCA Acquisition Support costs																
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	688.492		150.574		1,373.740		-		1,373.740	Continuing	Continuing	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 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 4					PE 0207147F / Collaborative Combat Aircraft					640017 / Collaborative Combat Aircraft									
					aft														

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Engineering and Manufacturing Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	2025	4	2031
Integration Studies	1	2025	4	2031
Technology Maturation Risk Reduction/Prototyping	1	2025	4	2031
Engineering and Manufacturing Development	1	2027	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 0207179F <i>I Autonomous Collaborative Platforms</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	48.983	63.471	57.217	0.000	57.217	58.201	59.435	60.680	65.007	Continuing	Continuing
643721: <i>Experimental Operations Unit (EOU)</i>	0.000	42.857	56.899	57.217	0.000	57.217	58.201	59.435	60.680	58.507	Continuing	Continuing
645340: <i>Viper Experimentation and Next-gen Operations Model (VENOM)</i>	0.000	6.126	6.572	0.000	0.000	0.000	0.000	0.000	0.000	6.500	0.000	19.198

Note

In FY 2027, Program 0207179F, Autonomous Collaborative Platforms, Project 645340, Viper Experimentation and Next-gen Operations Model (VENOM) efforts were transferred to Program 0605807, Test and Evaluation Support, Project 6606TS, Test and Evaluation Support, in order to continue to support flight test hours and on-going F-16 VENOM integration & sustainment.

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 (DOTMLPP-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.

Funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

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 included all necessary 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 2027 Air Force				Date: April 2026		
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				
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		50.666	62.019	0.000	0.000	0.000
Current President's Budget		48.983	63.471	57.217	0.000	57.217
Total Adjustments		-1.683	1.452	57.217	0.000	57.217
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-9.833			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	12.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-1.683	-0.715			
• Other Adjustments		0.000	0.000	57.217	0.000	57.217
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 643721: Experimental Operations Unit (EOU)						
Congressional Add: Wide Area Network Infrastructure Upgrades						
Congressional Add Subtotals for Project: 643721						
Congressional Add Totals for all Projects						
Change Summary Explanation						
FY2026 adjustments for \$12 million Congressional add for wide area network infrastructure upgrades and a reduction of -\$9.833 million for Unjustified Growth.						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
643721: <i>Experimental Operations Unit (EOU)</i>	0.000	42.857	56.899	57.217	0.000	57.217	58.201	59.435	60.680	58.507	Continuing	Continuing
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.

Funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

This program element included all necessary 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 2025	FY 2026	FY 2027
Title: Experimental Operations Unit	42.857	44.899	57.217
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 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-uncrewed teaming, training requirements, uncrewed employment, and the development of needed publications, training, and policy documents.			
FY 2027 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative Platforms	Project (Number/Name) 643721 / Experimental Operations Unit (EOU)
B. Accomplishments/Planned Programs (\$ in Millions)		
EOU will continue acquisition and operability of ACP prototypes, associated subsystems, and modeling and simulation (M&S) environments. EOU will continue to design and execute experiments using ACP prototypes and M&S environments to complete CCA force integration objectives. EOU will conduct studies and engage subject matter expertise in the areas of Agile Combat Employment (ACE), maintenance (and associated training), logistics, crewed/uncrewed teaming, employment of uncrewed aircraft, technical publication development, and policy document development. These studies will guide future experimentation with existing ACPs and may inform requirements for future ACPs.	FY 2025	FY 2026
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased as a result of normal inflation and continued ramp to a fully manned squadron.		
Accomplishments/Planned Programs Subtotals	42.857	57.217
	FY 2025	FY 2026
Congressional Add: Wide Area Network Infrastructure Upgrades	0.000	12.000
FY 2025 Accomplishments: Not applicable		
FY 2026 Plans: Upgrade the Experimental Operations Unit network and simulation capabilities to support Collaborative Combat Aircraft		
Congressional Adds Subtotals	0.000	12.000
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 2027 Air Force												Date: April 2026				
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)				
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	40.497		52.394		52.517		-		52.517	Continuing	Continuing	-	
Subtotal			-	40.497		52.394		52.517		-		52.517	Continuing	Continuing	N/A	
Remarks Contract specifics are not available at this level of security classification.																
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.360		4.505		4.700		-		4.700	Continuing	Continuing	-	
Subtotal			-	2.360		4.505		4.700		-		4.700	Continuing	Continuing	N/A	
Remarks EOU Acquisition Support includes but is not limited to A&AS, supplies, and facility related expenses.																
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	42.857		56.899		57.217		-		57.217	Continuing	Continuing	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 2027 Air Force											Date: April 2026				
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0207179F / Autonomous Collaborative Platforms					Project (Number/Name) 643721 / Experimental Operations Unit (EOU)				

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	2025	4	2031
Integration Studies	1	2025	4	2031
Risk Reduction	1	2025	4	2031

Note

The EOU is an enduring program with iterative DOTMLPF-P activities.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
645340: Viper Experimentation and Next-gen Operations Model (VENOM)	0.000	6.126	6.572	0.000	0.000	0.000	0.000	0.000	0.000	6.500	0.000	19.198
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.

In FY 2027, PE 0207179F, Autonomous Collaborative Platforms, Project 645340, Viper Experimentation and Next-gen Operations Model (VENOM) efforts were transferred to PE 0605807, Test and Evaluation Support, Project 6606TS, Test and Evaluation Support, in order to continue to support flight test hours and on-going F-16 VENOM integration & sustainment.

This program element included all necessary 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 2025	FY 2026	FY 2027
Title: Viper Experimentation and Next-gen Operations Model	6.126	6.572	0.000
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 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 2027 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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>		
B. Accomplishments/Planned Programs (\$ in Millions) Funding realigned to program 0605807, Test and Evaluation Support. Execution continues in program 0605807 to support flight test hours and on-going F-16 VENOM integration & sustainment <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding decreased as they were realigned to program 0605807. Execution continues in program 0605807 to support flight test hours and on-going F-16 VENOM integration & sustainment.		FY 2025	FY 2026	FY 2027
Accomplishments/Planned Programs Subtotals		6.126	6.572	0.000
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 2027 Air Force												Date: April 2026			
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)			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	6.126		6.262		-		-		-	0.000	12.388	-
Subtotal			-	6.126		6.262		-		-		-	0.000	12.388	N/A
Remarks Contract specifics are not available at this level of security classification.															
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.000		0.310		-		-		-	0.000	0.310	-
Subtotal			-	0.000		0.310		-		-		-	0.000	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	6.126		6.572		-		-		-	0.000	12.698	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 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2025	4	2026

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 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	1.844	1.689	1.692	0.000	1.692	1.727	1.780	1.815	1.854	0.000	12.401
642742: IFF/ATC Test and Certification	0.000	1.844	1.689	1.692	0.000	1.692	1.727	1.780	1.815	1.854	0.000	12.401
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 War 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 War/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 War 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 War (DoW) 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 War to remain interoperable with our foreign military partners as well as the United States and international civil aviation community. Department of War AIMS Program will continue to update the Department of War 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 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	1.914	1.713	0.000	0.000	0.000	
Current President's Budget	1.844	1.689	1.692	0.000	1.692	
Total Adjustments	-0.070	-0.024	1.692	0.000	1.692	
• 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	-0.070	-0.024				
• Other Adjustments	0.000	0.000	1.692	0.000	1.692	
Change Summary Explanation						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, and explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Air Traffic Control and Radar Beacon Systems Identification Friend or Foe Mark XII System (AIMS) Program Office				1.844	1.689	1.692
Description: Develop and maintain technical standards on development, integration, testing, and certification of Department of War 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 War platform using these waveforms in their interrogator and/or transponder equipment; the Program has averaged 185 IFF system certifications per year for U.S., NATO, and Coalition forces, directly enabling interoperability and unified warfighting efforts. 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 2026 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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. FY 2027 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). Continue steps for identification of technologies and develop requirements for the next-generation IFF (cooperative ID) system. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 increased compared to FY 2026 by \$0.003 million for inflation				
Accomplishments/Planned Programs Subtotals		1.844	1.689	1.692
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.694	Apr 2025	1.639	Apr 2026	1.642	Apr 2027	-		1.642	Continuing	Continuing	-
Subtotal			-	1.694		1.639		1.642		-		1.642	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.150		0.050		0.050		-		0.050	Continuing	Continuing	-
Subtotal			-	0.150		0.050		0.050		-		0.050	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.844		1.689		1.692		-		1.692	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2025)																												
AIMS Program Office Annual User Working Group (May 2026)																												
AIMS Program Office Annual User Working Group (May 2027)																												
AIMS Program Office Annual User Working Group (May 2028)																												
AIMS Program Office Annual User Working Group (May 2029)																												
AIMS Program Office Annual User Working Group (May 2030)																												
AIMS Program Office Annual User Working Group (May 2031)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	2025	4	2031
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
AIMS Program Office Annual User Working Group (May 2027)	3	2027	3	2027
AIMS Program Office Annual User Working Group (May 2028)	3	2028	3	2028
AIMS Program Office Annual User Working Group (May 2029)	3	2029	3	2029
AIMS Program Office Annual User Working Group (May 2030)	3	2030	3	2030
AIMS Program Office Annual User Working Group (May 2031)	3	2031	3	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	3.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.383
644413: <i>E-7</i>	0.000	3.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.383
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Tactical Data Links (TDLs), 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 provided critical capability and enhancements to the airborne network by supporting common development, integration and interoperability among ground and C2 platforms.

The E-7A program was created to replace 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-7A was intended to 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).

This project funded E-7A advanced communications studies (to include but not limited to hybrid SATCOM, Internet Protocol Beyond Line-of-Sight (IP-BLOS), and datalink, analysis, further requirements definition, and software and hardware development and testing. These advanced communication capabilities that may ultimately be used on the E-7A or E-3 are required to increase airborne C2 communications resiliency, enabling seamless connectivity with the DAF Battle Network and ensuring that either platform can connect to various SATCOM networks and datalinks should one or more SATCOM networks or datalinks become unavailable.

This program element included all necessary 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, and 0605898F In FY 2026, 0.000 was expended for civilian pay expenses in this program element. In FY 2027, 0.000 is forecasted for civilian pay expenses in this program element.

This program does not have funding in FY27.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		3.500	0.000	0.000	0.000	0.000
Current President's Budget		3.383	0.000	0.000	0.000	0.000
Total Adjustments		-0.117	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		-0.117	0.000			
• Other Adjustments		0.000	0.000	0.000	0.000	0.000
Change Summary Explanation FY2027 funding removed to fund higher Department priorities						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: E-7A Advanced Communications				3.383	0.000	0.000
Description: Funds acquire advanced communication capabilities for airborne platforms to extend and enhance air moving target indicator (AMTI) and C2 capabilities.						
FY 2026 Plans: N/A						
FY 2027 Plans: N/A						
FY 2026 to FY 2027 Increase/Decrease Statement: FY27 funding removed to fund higher Department priorities.						
Accomplishments/Planned Programs Subtotals				3.383	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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

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

			<u>FY 2027</u>	<u>FY 2027</u>	<u>FY 2027</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Base</u>	<u>OOB</u>	<u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Complete</u>	<u>Total Cost</u>
• RDTE 04 0604007F: E-7	586.729	1,097.263	0.000	-	0.000	0.000	0.000	0.000	-	0.000	1,683.992

Remarks

E. Acquisition Strategy

The E-7A Advanced Communications initiative leveraged various contracts.

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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various	TBD	TBD : TBD	-	3.144	Apr 2026	0.000		0.000		-		0.000	Continuing	Continuing	-
Subtotal			-	3.144		0.000		0.000		-		0.000	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.239	Sep 2025	0.000		0.000		-		0.000	Continuing	Continuing	-
Subtotal			-	0.239		0.000		0.000		-		0.000	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	3.383		0.000		0.000		-		0.000	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force

Date: April 2026

Appropriation/Budget Activity
3600 / 4

R-1 Program Element (Number/Name)
PE 0207448F / C2ISR Tactical Data Link

Project (Number/Name)
644413 / E-7

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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 2027 Air Force									Date: April 2026			
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 0207455F I Three Dimensional Long-Range Radar (3DELRR)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	7.809	12.677	22.335	0.000	22.335	12.741	11.461	0.000	0.000	0.000	67.023
646002: Three Dimensional Expeditionary Long Range Radar	0.000	7.809	12.677	22.335	0.000	22.335	12.741	11.461	0.000	0.000	0.000	67.023
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 393												
A. Mission Description and Budget Item Justification												
The Three-Dimensional Expeditionary Long-Range Radar (3DELRR) program develops the AN/TPY-4 radar 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. 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 targets; 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 2027 funding will continue system capability development, which includes continued work on electronic protection (EP) techniques, continued software fixes and Non-Recurring Engineering (NRE) costs. Additionally, FY 2027 funding will support continued test and evaluation activity, to include Initial Operational Test and Evaluation (IOT&E) of the system and Operational Utility Evaluation Test preparation. FY2027 funding will support development of enhanced capabilities of the AN/TPY-4 radar.												
This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	8.100	17.344	0.000	0.000	0.000	
Current President's Budget	7.809	12.677	22.335	0.000	22.335	
Total Adjustments	-0.291	-4.667	22.335	0.000	22.335	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	-4.500				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	-0.291	-0.167				
• Other Adjustments	0.000	0.000	22.335	0.000	22.335	
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: TPY-4 Prime Contract System Development & Test Support				6.884	8.159	9.885
Description: Funds will be used for the development, integration, and test support of TPY-4 radar system.						
FY 2026 Plans:						
- Continue the development of electronic protection techniques.						
- Begin study for development of Decoy capability.						
- Perform system fixes to address deficiencies identified during test events.						
- Fund test support for government led test activities.						
FY 2027 Plans:						
- Continue contractor support of test events.						
- Begin development of Decoy capability.						
- Begin development of Cooperative Engagement Capability (CEC).						
- Begin development of Weapons Quality Track capability.						
- Continue development of Integrated Fire Control Network (IFCN) capability.						
- Perform system fixes to address deficiencies identified during test events.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026	
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 0207455F I Three Dimensional Long-Range Radar (3DELRR)	

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027
- Continue funding test support for government led IOT&E efforts.			
FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 budget increase is to allow for advanced capability development.			
Title: Government Development, Operational & Integration Test and Evaluation Execution Description: Execution of Government-led Developmental, & Operational Test and Evaluation Activities. 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. FY 2027 Plans: - Continue integrated test and evaluation activities to characterize system performance. - Continue initial operational test & evaluation to support system fielding decision. - Begin testing of additional CDD required capabilities. - Prepare for Operational Utility Evaluation (OUE) testing. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 increase is to support additional developmental and operational testing.	0.925	4.518	12.450
Accomplishments/Planned Programs Subtotals	7.809	12.677	22.335

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOB</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 833060: 3D Expeditionary Long-Range Radar	96.022	103.226	430.607	-	430.607	392.929	419.114	13.169	13.432	0.000	1,468.499
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 FY2027.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	6.883	Jul 2025	8.159	Jan 2026	6.667	Jan 2027	-		6.667	Continuing	Continuing	-
Enhanced Capabilities	Various	Various : Various	0.000	-		-		3.218	Jan 2027	-		3.218	0.000	3.218	-
Subtotal			0.000	6.883		8.159		9.885		-		9.885	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.417	Sep 2025	0.208	May 2026	0.212	May 2027	-		0.212	Continuing	Continuing	-
Subtotal			0.000	0.417		0.208		0.212		-		0.212	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.000	Nov 2025	2.670	May 2026	7.495	Jan 2027	-		7.495	0.000	10.165	-
Government Developmental Test and Evaluation (GDT&E)	PO	46 TS : Eglin AFB, FL	0.000	0.509	May 2025	1.139	Jan 2026	2.902	Jan 2027	-		2.902	Continuing	Continuing	-
Subtotal			0.000	0.509		3.809		10.397		-		10.397	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/ESGT : Hanscom AFB, MA	0.000	0.000	Jul 2025	0.501	Jul 2026	1.841	Jul 2027	-		1.841	Continuing	Continuing	-
Subtotal			0.000	0.000		0.501		1.841		-		1.841	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force								Date: April 2026			
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			
	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	0.000	7.809	12.677	22.335	-	22.335	Continuing	Continuing	N/A		

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026					
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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)																												
Develop, and verify decoys																												
Enhanced Capability development and test																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	2025	4	2027
Government Test (GDT&E & IOT&E)	3	2025	3	2027
Develop, and verify decoys	4	2026	4	2029
Enhanced Capability development and test	1	2027	2	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	19.273	15.666	85.305	0.000	85.305	77.861	33.325	29.370	29.947	Continuing	Continuing
640410: Tech Maturation & Risk Reduct	0.000	19.273	15.666	85.305	0.000	85.305	77.861	33.325	29.370	29.947	Continuing	Continuing
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-small Unmanned Aerial Systems (C-sUAS)) aim to protect personnel, assets, and infrastructure vital to supporting the national security strategy.

ABADS MD was originally 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) systems to provide adaptive, resilient, and dedicated air defense capability. FY27 adds the integration of kinetic effectors, additional non-kinetic effectors and active radar systems. The ABADS MD system is designed to operate independently or in concert with other local and distributed capabilities to form a multi-layered defense-in-depth, improving airbase defense and airbase resiliency.

ABADS MD FY2027 funding continues development efforts to operationalize the NKE following prototype transition from the Air Force Research Laboratory (AFRL). Additionally, the funding supports integration of short to medium range kinetic effectors, active defense radars, and additional non-kinetic effector capabilities. Funding also supports and delivers Government Development Security and Operations (DevSecOps) software pipeline, supporting software updates and prioritized capability upgrades. The Government DevSecOps pipeline also supports further alignment with the ABMS portfolio (TOC-L, Digital Infrastructure, and Cloud Based Command and Control). FY2027 funding continues support to Director, Operational Test and Evaluation (DOT&E) oversight required test activities.

ABADS MD FY2027 funding will support testing and integration for the kinetic and non-kinetic effector capabilities. Funding will also support and maintain a Government 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). FY2027 funding also supports Director, Operational Test and Evaluation (DOT&E) oversight required test activities.

ABADS 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+ DAF installations. ABADS C-sUAS features a system of systems approach to integrate

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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)	
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 DoW Joint Interagency Task Force (JIATF) 401 to align annual efforts. ABADS C-sUAS FY2027 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 DoW's Joint Interagency Task Force (JIATF) 401, including cyber hardening of all new system changes, and support management of JIATF 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. Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes. The total cost of the ABADS C-sUAS Next Gen C2 Systems (CNGCS) Middle Tier of Acquisition effort is 111.8 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 program funds would be in addition to the civilian pay expenses budgeted in program elements 0605829F, 0605831F, 0605833F, and 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 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		17.273	15.785	0.000	0.000	0.000
Current President's Budget		19.273	15.666	85.305	0.000	85.305
Total Adjustments		2.000	-0.119	85.305	0.000	85.305
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-5.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	5.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		2.500	0.000			
• SBIR/STTR Transfer		-0.500	-0.119			
• Other Adjustments		0.000	0.000	85.305	0.000	85.305
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
FY2026 budget request was reduced by \$5.000 million for Product development carryover.						
FY2026 budget request was increased by \$5.000 million for Program increase - dynamic detection radar system.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: ABADS Counter-small Unmanned Aircraft Systems (C-sUAS)				15.188	9.917	29.199
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 2026 Plans:						
- Update Medusa Command and Control (C2) software furthering interoperability and incorporation within the Advanced Battle Management System (ABMS) architecture (e.g., Unified Data Library).						
- Upgrade electronic warfare, including but not limited to new sensor and effector components, and new Ninja skills leveraging full Ninja capability within Medusa C2 and other C2 systems.						
- Continue efforts in alignment with the DoW's Joint Interagency Task Force (JIATF) 401.						
- Evaluate new capabilities.						
- Develop and test C2 capabilities, via planned incremental software sprints, annual software upgrades.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
- Ensure cyber security requirements are developed and incorporated in all new system changes. - Support oversight, management, and execution of JIATF funded development efforts. - Conduct studies, analysis, and evaluations of threats and capability gaps to refine and update requirements enabling upgraded and improved capabilities. - Initiate and continue contractor testing of developed updates. - Integrate initial kinetic effectors for evaluation for broader DAF employment to include low collateral effects intercept (LCEI) capabilities and other kinetic solutions such as Advanced Precision Kill Weapon System (APKWS). - Integrate capabilities on expeditionary systems. - Develop NCR COP technical solutions to include joint interoperability of Counter-small Unmanned Aircraft Systems (C-sUAS) sensors, development of correlation and fusion process, and developing cyber-secure cloud infrastructure for data dissemination and processing for C-sUAS protection of Presidential aviation assets. FY 2027 Plans: - Will continue to update Medusa Command and Control (C2) software to further interoperability and incorporation within the Advanced Battle Management System (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 DoW's JIATF. - Will continue to evaluate new capabilities. - Will continue to develop and test C2 capabilities, via planned incremental software sprints, bi-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 JIATF 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 continue to develop NCR COP technical solutions in coordination with the Air Force Rapid Capabilities Office to include joint interoperability of Counter-small Unmanned Aircraft Systems (C-sUAS) sensors, development of correlation and fusion process, and developing cyber-secure cloud infrastructure for data dissemination and processing for C-sUAS protection of Presidential aviation assets. FY 2026 to FY 2027 Increase/Decrease Statement:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
FY26 to FY27 increased due to NCR software and hardware development requirements.				
Title: ABADS Missile Defense (MD) Description: During this program phase, the ABADS MD capability will focus on integration activities, with a focus on continued NKE integration and the introduction of kinetic and additional non-kinetic effector solutions and active defense radars. Specifically, integration activities will leverage previous work accomplished utilizing Integrated Battle Command System and UCI interface management to rapidly incorporate additional subsystem combat capabilities to defend Joint or Coalition bases and critical infrastructure. RDT&E activities in this phase continue to focus on a government DevSecOps software development and production framework, alignment with ABMS infrastructure and capabilities and incorporation of additional capabilities. FY 2026 Plans: - Participate in select Department of the Air Force and theater exercises and demonstrations - Support fielding of ABADS Missile Defense (MD) capability - Test, and field capability enhancements as identified - Generate formal program documentation in support of fielding effort - Develop and demonstrate a prototype Dynamic Detection Radar System (DDRS) capability including: -- Integrate passive RF sensing with existing tactical radar systems -- Develop multi-static coordination and communication architecture -- Develop software for sensor fusion, target cueing, and autonomous operation -- Conduct lab and field testing to validate performance and survivability -- Conduct operational experimentation with USAFE-AFAFRICA. FY 2027 Plans: - Will continue operationalization, testing, and ultimately fielding of the Non-Kinetic Effector. - Will participate in select DAF and theater exercises and demonstrations in support of INDOPACOM and NORTHCOM - Will continue software development efforts on a government-run DevSecOps software pipeline -- Will integrate and develop kinetic and additional non-kinetic effector solutions - Will integrate and develop active defense radar solutions - Will support oversight, management, and execution of site stand-up, fielding, and sustainment of ABADS MD in INDOPACOM, NORTHCOM, and EUCOM - Will develop, test, and field capability enhancements FY 2026 to FY 2027 Increase/Decrease Statement:		4.085	5.749	56.106

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027
FY2026 to FY2027 increase due to increase in software development as well as system demonstration and testing to support NORAD/NORTHCOM mission set.												
Accomplishments/Planned Programs Subtotals										19.273	15.666	85.305
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• OPAF 03 0207522F: Airbase Air Defense Systems (ABADS) for Missile Defense	64.665	70.418	1,440.196	-	1,440.196	1,119.499	279.515	157.391	160.537	Continuing	Continuing	
• OPAF 03 0207522F.: Airbase Air Defense Systems (ABADS) for C-sUAS	121.550	54.891	89.256	-	89.256	27.492	12.731	12.934	13.192	Continuing	Continuing	
Remarks												
E. Acquisition Strategy												
For 2027, ABADS Missile Defense (MD) will be fully executing two Rapid Prototyping and one Rapid Fielding Middle Tier of Acquisitions (MTAs). The primary efforts will continue the maturation of the Non-Kinetic Effector (NKE) both from a software and hardware perspective. Software initiatives will utilize a variety of contracts to build upon fielded capability. Hardware initiatives will build upon contracts awarded in 2026 to optimize system configuration for a production cut-in aimed at reducing production lead times by 50%. ABADS MD will continue to mature its usage of the Government Development Security Operations (DevSecOps) software pipeline for software production and configuration management. ABADS MD will also support theater specific testing/demonstrations to mature interconnectivity and concepts of operations.												
Additionally, ABADS MD utilize Requests for Information and a mix of sole source and competitively awarded contracts to identify, select, develop, integrate, and test kinetic and additional non-kinetic effector solutions and active defense radars into the ABADS MD baseline program. These activities will leverage existing design interface standards utilized by the program to date in order to rapidly on-board, integrate, and test the additional subsystems. The activities will also leverage existing software pipeline capabilities as well as DT/OT test organizations/infrastructure.												
The Advanced Battle Management System (ABMS) Division within PEO Command, Control, Communications and Battle Management (C3BM) provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support. AFLCMC provides Other Transaction Authority.												
Counter-small Unmanned Aircraft Systems (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 FY2027, the primary efforts endeavor to improve												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force / BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0207522F / Airbase Air Defense Systems (ABADS)	
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 2027 Air Force												Date: April 2026			
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 Reduct s					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.183	May 2025	3.564	Feb 2026	4.163	Jan 2027	-		4.163	Continuing	Continuing	-
ABADS C-sUAS - Hardware System Development	Various	Not specified. : TBD	-	2.414	Apr 2025	3.165	Apr 2026	4.120	Jan 2027	-		4.120	Continuing	Continuing	-
ABADS C-sUAS - NCR COP Development	Various	Not specified. : TBD	-	6.998	Apr 2025	1.416	Apr 2026	19.321	Jan 2027	-		19.321	Continuing	Continuing	-
ABADS MD - Kinetic Effector Integration	Various	Not specified. : TBD	-	-		-		36.105	Jan 2027	-		36.105	Continuing	Continuing	-
ABADS MD - Prototype Development (Hardware / Software)	Various	2.1 - Proto / 2.2 S/ W : WPAFB, OH	-	3.988	Jun 2025	0.000	Nov 2025	5.000	Nov 2026	-		5.000	Continuing	Continuing	-
ABADS MD - Government Software Pipeline	Various	Software Development : WPAFB, OH	-	0.000	Dec 2024	0.000	Nov 2025	3.500	Nov 2026	-		3.500	Continuing	Continuing	-
Dynamic Detection Radar System Development	TBD	Not specified. : TBD	-	-		4.922	Oct 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	16.583		13.067		72.209		-		72.209	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 - Direct Cite Authority	Various	Not specified. : TBD	-	0.237	Jun 2025	0.217	Apr 2026	0.270	Apr 2027	-		0.270	Continuing	Continuing	-
ABADS MD - Direct Cite Authority	Various	Not specified. : TBD	-	0.000	Oct 2024	0.000	Oct 2025	4.750	Oct 2026	-		4.750	Continuing	Continuing	-
Subtotal			-	0.237		0.217		5.020		-		5.020	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026					
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	PO	Not specified. : TBD	-	0.108	Oct 2025	0.410	Feb 2026	0.100	Nov 2026	-		0.100	Continuing	Continuing	-		
ABADS MD - Demonstration & Test	Various	2.3 - System Testing : TBD	-	0.000	Jul 2025	0.827	Mar 2026	4.751	Nov 2026	-		4.751	Continuing	Continuing	-		
Subtotal			-	0.108		1.237		4.851		-		4.851	Continuing	Continuing	N/A		
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.248	Oct 2024	1.145	May 2026	1.225	Oct 2026	-		1.225	Continuing	Continuing	-		
ABADS MD - Management Services	C/Various	Various (2.1, 2.2, 2.3) : WPAFB, OH	-	0.097	Jun 2025	0.000	Nov 2025	2.000	Nov 2026	-		2.000	Continuing	Continuing	-		
Subtotal			-	2.345		1.145		3.225		-		3.225	Continuing	Continuing	N/A		
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	19.273		15.666		85.305		-		85.305	Continuing	Continuing	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 Reduct s (ABADS)	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 - Software Development																												
1.2 - ABADS C-sUAS - Hardware Development																												
1.3 - ABADS C-sUAS - NCR COP Development																												
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																												
2.5 - ABADS MD - Capability Integration																												
2.6 - Dynamic Detection Radar System Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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 Reduct s (ABADS)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ABADS C-sUAS - Events				
1.1 - ABADS C-sUAS - Software Development	3	2025	4	2031
1.2 - ABADS C-sUAS - Hardware Development	3	2025	4	2031
1.3 - ABADS C-sUAS - NCR COP Development	3	2025	4	2027
ABADS MD - Events				
2.1 - ABADS MD - Prototype Development	1	2025	2	2026
2.2 - ABADS MD - BMC2 Development (Software)	1	2025	2	2026
2.3 - ABADS MD - Prototype Demonstration and Test	3	2025	4	2026
2.4 - ABADS MD - Operational Software Continuous Integration/Test/Delivery	4	2025	4	2031
2.5 - ABADS MD - Capability Integration	2	2027	4	2028
2.6 - Dynamic Detection Radar System Development	1	2026	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	147.368	247.491	302.801	0.000	302.801	352.178	333.950	323.465	313.126	Continuing	Continuing
642407: Joint Simulation Environment	0.000	147.368	247.491	302.801	0.000	302.801	352.178	333.950	323.465	313.126	Continuing	Continuing
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, aircrew training events, and aircraft platform operational test campaigns. 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 addresses platform training and test 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, to include high-fidelity aircraft mission system and sensor models, 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 Executing Test Organization (ETO) role, delegated to the 445th TS by the 412th Test Wing as the JSE Enterprise's Lead Developmental Test Organization (LDTO).

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) and radiofrequency (RF) propagation models, weather effects on IR and RF propagation, Datalinks, 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 2027 Air Force			Date: April 2026				
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)					
This program element included all necessary 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, and 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.							
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		149.502	260.667	0.000	0.000	0.000	
Current President's Budget		147.368	247.491	302.801	0.000	302.801	
Total Adjustments		-2.134	-13.176	302.801	0.000	302.801	
• Congressional General Reductions		0.000	0.000				
• Congressional Directed Reductions		0.000	-11.917				
• 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		-2.134	-1.259				
• Other Adjustments		0.000	0.000	302.801	0.000	302.801	
Change Summary Explanation							
FY2025 adjustment of -2.134 million for SBIR.							
FY2026 adjustment of -13.176 million consists of Congressional reduction of -11.917 million for program carryover and -1.259 million for Sec 8151 SBIR/STTR							
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: JSE Platform In-A-Box (PIAB) and Pilot Vehicle Interface (PIV) Hardware Simulator Development					4.142	37.487	45.235
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 2027 Air Force		Date: April 2026		
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 0207606F <i>I Joint Simulation Environment (JSE)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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 2026 Plans: FY 2026 continued additional development, evaluations, and experimentation of system models and OFP-based simulators to assess OFP interoperability to include but not limited to the addition of E-7, Command and Control capabilities, F-15EX PIAB Design Study, continued integration of F-22 PIAB, as well as compare OFPs against JSE GSI and SCARS Simulator standards. FY 2026 also funds evaluation and integration of new technologies including XR/VR Goggle capability, JSE common cockpit configuration physical device footprint reduction and hardware cost requirements for JSE enabled sites.				
FY 2027 Plans: FY 2027 continues additional development, evaluations, and experimentation of system models and OFP-based simulators to assess OFP interoperability, to include but not limited to continued integration of E-7 PIAB, Command and Control capabilities, continued integration of F-22 PIAB, F-15EX PIAB development and associated integration, as well as compare OFPs against JSE GSI and SCARS Simulator standards. FY 2027 also funds the evaluation and integration of new technologies to include XR/VR Goggle capability, JSE common cockpit configuration physical device footprint reduction, and hardware cost requirements for JSE enabled sites.				
FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 funding increased 7.748 million due to phased development approaches to support Platforms-In-A-Box (PIABs) development to include E-7 and F-15EX, in addition to other weapons systems and platforms.				
Title: JSE Digital Test and Training Ranges (DTTRs)		16.833	14.627	22.949
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 2026 Plans: FY 2026 is a continuation of FY 2025 plans to include, but are not limited to, Joint Technical Baseline (JTB), F-35, F-22, and Virtual Airborne 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 required complement to open-air testing. Additionally, the ability to iteratively experiment in the JSE environment will drive hyper-refined analyses of alternatives studies and better inform future acquisition				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0207606F <i>I Joint Simulation Environment (JSE)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
decisions for both JSE and aircraft platforms), 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 F-15EX, E-7, and Red Air Platforms), and early experimentation efforts to assess technology solutions (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.) for system enhancement and iterative optimization of test and training system configurations to deliver increased, secure test and training capability at JSE-enabled sites while decreasing system costs and space and power demands. FY 2027 Plans: FY 2027 is a continuation of FY 2026 plans to include, but are not limited to, F-35, F-22, and Virtual Airborne 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-15EX 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 to FY 2027 Increase/Decrease Statement: FY 2027 funding increased by 8.322 million due to increased organic support related to a ramp-up in LDTO requirements for JSE.				
Title: JSE Core Environment Development/Integration		126.393	195.377	234.617
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				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 2025	FY 2026	FY 2027
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 software versions to all connected locations. Costs include, but are not limited to, establishing equipment, personnel, processes, contracts, etc. to support JSE product development.			
<i>FY 2026 Plans:</i> 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 Airborne Threat Solution (VATS- manned red air) 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 (Impact Levels (IL) 5, 6, and 6+).			
<i>FY 2027 Plans:</i> FY 2027 is a continuation of FY 2026 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 Airborne Threat Solution (VATS - manned red air) 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 (Impact Levels (IL) 5, 6, and 6+). FY27 environment upgrade support provided by the Navy organic software developers ramps down assuming some workload transfer to Air Force Sustainment Center Software Engineering Directorate.			
<i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> FY 2027 funding increased by 39.240 million due to a ramp up in organic Software Engineering Directorate personnel with an increased knowledge base after cross training. Expanding representation of friendly and threat platforms, weapons, and capabilities required to fully represent realistic combat scenarios and assess potential outcomes.			
Accomplishments/Planned Programs Subtotals	147.368	247.491	302.801

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF 03 834010: General Information Technology	79.535	105.610	10.024	-	10.024	150.435	12.159	1.649	97.042	Continuing	Continuing

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force									Date: April 2026		
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)						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• APAF 01 JSE000: Platform-in-a-Box	-	41.509	52.695	-	52.695	120.688	121.299	53.136	176.268	Continuing	Continuing
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 22 June 2025, JSE program entered the Execution Phase of the Software Acquisition Pathway for the execution of both software and hardware requirements. This supports 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. The Air Force Program Office will continue to engage with its Navy counterparts to ensure requirements are met, as well as to maintain a shared understanding and commonality across the JSE enterprise.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 (PVI) Hardware Simulator Development	Various	AFLCMC/WNR : WPAFB, OH	-	4.142	Dec 2024	37.487	Nov 2025	45.235	Nov 2026	-		45.235	Continuing	Continuing	-
JSE Core Environment Development/Integration	Various	AFLCMC/WNR : WPAFB, OH	-	126.393	Nov 2024	195.377	Nov 2025	234.617	Nov 2026	-		234.617	Continuing	Continuing	-
Subtotal			-	130.535		232.864		279.852		-		279.852	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	16.833	Nov 2024	14.627	Nov 2025	22.949	Nov 2026	-		22.949	Continuing	Continuing	-
Subtotal			-	16.833		14.627		22.949		-		22.949	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	147.368		247.491		302.801		-		302.801	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026											
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0207606F / Joint Simulation Environment (JSE)								Project (Number/Name) 642407 / Joint Simulation Environment							

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Execution Phase																												
JSE Technical Baseline 5.0 Release																												
Minimum Viable Capability Release (MVCr)																												
JSE Technical Baseline 6.0 Release																												
JSE Technical Baseline 7.0 Release																												
JSE Technical Baseline 8.0 Release																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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 Execution Phase	3	2025	4	2031
JSE Technical Baseline 5.0 Release	4	2025	2	2026
Minimum Viable Capability Release (MVCR)	3	2026	4	2026
JSE Technical Baseline 6.0 Release	2	2026	4	2026
JSE Technical Baseline 7.0 Release	4	2026	2	2027
JSE Technical Baseline 8.0 Release	2	2027	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	5.042	9.732	14.663	0.000	14.663	9.939	10.171	10.374	10.595	Continuing	Continuing
648030: Operational Weaponeering and Analysis	0.000	5.042	9.732	14.663	0.000	14.663	9.939	10.171	10.374	10.595	Continuing	Continuing
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 DoW 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 DoW 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 DoW.

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 2027 Air Force				Date: April 2026		
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 0208030F I War Reserve Materiel - Ammunition				
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 Air Force 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 DoW 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.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		5.226	9.865	0.000	0.000	0.000
Current President's Budget		5.042	9.732	14.663	0.000	14.663
Total Adjustments		-0.184	-0.133	14.663	0.000	14.663
• 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		-0.184	-0.133			
• Other Adjustments		0.000	0.000	14.663	0.000	14.663
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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 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 2027 Plans:		5.042	9.732	14.663

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>War Reserve Materiel - Ammunition</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
To fund DTRA Tools, EWAAC Air Force Targeting, and Effects Software (AFTES) and DISA Contracts.				
<i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Increase from FY26 to FY27 to fund EWAAC Air Force Targeting and Effects Software (AFTES) and DISA Contracts.				
Accomplishments/Planned Programs Subtotals		5.042	9.732	14.663
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 DoW 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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0208030F / War Reserve Materiel - Ammunition						Project (Number/Name) 648030 / Operational Weaponeering and Analysis			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.900	Jan 2025	4.825	Jan 2026	14.663	Jan 2027	-		14.663	Continuing	Continuing	-
Air Force Targeting and Effects Software (AFTES)	C/CPFF	Multiple : Fort Walton Beach, FL	-	2.267	Apr 2025	3.932	Apr 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	4.167		8.757		14.663		-		14.663	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.750	Jun 2025	0.615	Jun 2026	-		-		-	Continuing	Continuing	-
Program Material Support	RO	AFLCMC/EBRW : Eglin AFB, FL	-	0.075	May 2025	0.300	May 2026	-		-		-	Continuing	Continuing	-
Travel for Program Management	RO	AFLCMC/EBRW : Eglin AFB, FL	-	0.050	Oct 2024	0.060	Oct 2025	-		-		-	Continuing	Continuing	-
Subtotal			-	0.875		0.975		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	5.042		9.732		14.663		-		14.663	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0208030F / War Reserve Materiel - A mmunition								Project (Number/Name) 648030 / Operational Weaponeering and Analysis			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2025	4	2031
Air Force Targeting and Effects Software (AFTES)				
Air Force Targeting and Effects Software (AFTES)	1	2025	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0302060F I Looking Glass Next							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	65.277	0.000	65.277	409.500	0.000	0.000	0.000	Continuing	Continuing
646508: Looking Glass Next (LG-N))	0.000	0.000	0.000	65.277	0.000	65.277	409.500	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
This program, BA 4, PE 0302060F, project 646508, Looking Glass - Next (LG-N), is a new start.

A. Mission Description and Budget Item Justification

Looking Glass - Next (LG-N) is a pre-Major Defense Acquisition Program (MDAP) to recapitalize the Looking Glass (previously known as Airborne National Command Post (ABNCP)) and provide Intercontinental Ballistic Missile (ICBM) Secondary Launch Capability (SLC). To satisfy operational requirements, the LG-N weapon system will be comprised of an air vehicle, mission systems, and ground support systems. The air vehicle will be hardened to protect against nuclear and electromagnetic effects and use a Modular Open System Approach (MOSA) for a mission system that will integrate secure communications and planning capabilities on modern information technology (IT) infrastructure. The ground systems should include aircrew trainers, mission crew trainers, maintenance training devices, ground support equipment, sustainment system integration laboratories (SIL), and other ground systems to enable the operations, sustainment, and future modifications of the LG-N weapon system across its lifecycle.

Program funding includes funds for emerging requirements to support program office operations, management services (Federally Funded Research and Development Centers [FFRDC], Advisory and Assistance Services [A&AS], etc.), Program Management Support (PMS), security, facilities, prototyping, equipment, integrate Digital Engineering and other efforts as required to establish the required program office capabilities. Funding will also support all activities required to award and execute development contract(s) for the LG-N Weapon System to include supporting test activities and prototype, development, sustainment, and integration activities of Nuclear Command, Control, and Communications (NC3) or other Department of War (DoW) programs required to meet mission requirements.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force / BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 Program Element (Number/Name) PE 0302060F / Looking Glass Next				
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	0.000	65.277	0.000	65.277
Total Adjustments		0.000	0.000	65.277	0.000	65.277
• 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	65.277	0.000	65.277
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Looking Glass - Next (LG-N)				0.000	0.000	65.277
Description: The LG-N weapon system will be 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. 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 LG-N weapon system across the lifecycle						
FY 2026 Plans: N/A						
FY 2027 Plans: - Secure DevRFP decision from Program Executive Offices (PEO) - Release the LG-N RFP and execute source selection - Supporting development and modernization of required NC3, C3, Cryptographic, Open Architecture/Open Mission System, and other capabilities to ensure systems are sustainable and available to integrate into the LG-N Weapon System - Support test planning and preparation activities - Program office manning growth-path and develop secure space required - Support Major Commands (MAJCOM) LG-N preparatory and planning activities						
FY 2026 to FY 2027 Increase/Decrease Statement:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force								Date: April 2026				
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 0302060F / <i>Looking Glass Next</i>						
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2025	FY 2026	FY 2027
Funding increased due to stand up of LG-N program office and contracting activities.												
Accomplishments/Planned Programs Subtotals										0.000	0.000	65.277
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• APAF 05 LG000N: <i>LOOKING GLASS NEXT BP11</i>	0.000	0.000	0.000	-	0.000	0.000	70.000	-	-	0.000	70.000	
Remarks												
E. Acquisition Strategy The LG-N acquisition strategy is currently under development. The program office will look at ways to expand the industrial base, accelerate commercial preference, develop incentives that maximize industry creativity, and create best value for the government while reducing program risk. With early and frequent engagement between program office, operators, and industry, we will establish strong partnerships to take advantage of acquisition opportunities and balance acquisition and operational risk. The LG-N Program Management Office (PMO) expects acquisition strategy approval in 4th quarter FY 2026.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0302060F / <i>Looking Glass Next</i>						Project (Number/Name) 646508 / <i>Looking Glass Next (LG-N)</i>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Pre-Development ContractActivities/Studies	C/TBD	TBD : TBD	-	-		-		43.527	Oct 2026	-		43.527	Continuing	Continuing	-
Subtotal			-	-		-		43.527		-		43.527	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Civilian Pay	TBD	Hanscom AFB : TBD	-	-		-		4.200	Oct 2026	-		4.200	Continuing	Continuing	-
Subtotal			-	-		-		4.200		-		4.200	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		-		1.000	Oct 2026	-		1.000	Continuing	Continuing	-
Subtotal			-	-		-		1.000		-		1.000	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Hanscom AFB : TBD	-	-		-		4.750	Oct 2026	-		4.750	Continuing	Continuing	-
FFRDC	C/CPFF	Bedford, MA : TBD	-	-		-		10.000	Oct 2026	-		10.000	Continuing	Continuing	-
PMA - Other	Various	Hanscom AFB : TBD	-	-		-		1.800	Oct 2026	-		1.800	Continuing	Continuing	-
Subtotal			-	-		-		16.550		-		16.550	Continuing	Continuing	N/A
			Prior Years	FY 2025	FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	-	-		65.277		-		65.277	Continuing	Continuing	N/A	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force							Date: April 2026			
Appropriation/Budget Activity 3600 / 4				R-1 Program Element (Number/Name) PE 0302060F / Looking Glass Next		Project (Number/Name) 646508 / Looking Glass Next (LG-N))				
	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										
- Program office is executing pre-EMD activities, to include CONEMPs development, requirements generation, industry teaming, acquisition strategy development, RFP documentation, preparing for devRFP decision, RFP release, and source selection planning.										
FY 2027 funding request also supports:										
- Risk reduction activities for external program dependencies, specifically ensuring NC3 commodity systems are available for procurement during EMD.										
- Direct Cite Authority (DCA) civilians										
- Engineering, Professional, and Administrative Support Services (EPASS) support, FFRDC support, and travel										
- FY26 funding for the program was executed out of PE 0606018F to comply with an FY2026 OSW CAPE/C4IP Study for: Future Airborne Platform for Looking Glass and ICBM Secondary Launch Platform Missions										

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 4								PE 0302060F / Looking Glass Next								646508 / Looking Glass Next (LG-N))			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Looking Glass Next																												
Acquisition Strategy Refinement and RFP Development																												
Market Research and Studies																												
External / Directed Systems Studies																												
Source Selection																												
Milestone B																												
EMD Phase																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0302060F / Looking Glass Next	Project (Number/Name) 646508 / Looking Glass Next (LG-N))	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Looking Glass Next				
Acquisition Strategy Refinement and RFP Development	3	2026	2	2027
Market Research and Studies	2	2026	4	2027
External / Directed Systems Studies	2	2026	4	2031
Source Selection	4	2027	2	2028
Milestone B	2	2028	2	2028
EMD Phase	2	2028	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 / <i>AF ISR Digital Infrastructure</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	18.733	21.711	24.455	0.000	24.455	24.440	24.419	24.413	24.913	Continuing	Continuing
640018: <i>Air Force ISR Digital Infrastructure</i>	0.000	0.000	21.711	24.455	0.000	24.455	24.440	24.419	24.413	24.913	Continuing	Continuing
640141: <i>Advanced Battle Management System (ABMS)</i>	0.000	18.733	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Air Force (AF) Intelligence, Surveillance, Reconnaissance (ISR) Digital Infrastructure (DI) (AF ISR DI) project was previously reported with Combat Air Intelligence Systems (CAIS) in the FY2025. Department of the Air Force (DAF) created a new project for AF ISR DI and will now be reported on within this project.

AF ISR DI provides 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, global edge access. Secure commercial cloud architectures are uniquely able to meet the processing, scaling, resilience and agility demands of dynamic multi-domain operations. AF ISR DI ensures compliance with Intelligence Community (IC) requirements for security, architecture, data safeguarding and sharing, and integrated defense, to protect IC data.

AF ISR DI also 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 cost of ownership.

FY 2027 request for AF ISR DI includes 24.455 million.

Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

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 2027 Air Force				Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	18.733	24.817	0.000	0.000	0.000
Current President's Budget	18.733	21.711	24.455	0.000	24.455
Total Adjustments	0.000	-3.106	24.455	0.000	24.455
• Congressional General Reductions	0.000	-3.106			
• 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	24.455	0.000	24.455
Change Summary Explanation					
In FY2026 this PE received an -3.1 million Congressional Reduction for, "funding ahead of need." The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding.# Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640018: Air Force ISR Digital Infrastructure	0.000	0.000	21.711	24.455	0.000	24.455	24.440	24.419	24.413	24.913	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

PE 0303010F is not a new start in FY 2026. In FY2025 AF ISR Digital Infrastructure became a new Program Element in FY2026 the BPAC change from Advanced Battle Management System (ABMS) BPAC 640141 to Air Force ISR Digital Infrastructure BPAC 640141.

A. Mission Description and Budget Item Justification

Congressional technical adjustment transferred 18.733 million from CAIS PE 0207431F in RDT&E for FY 2025.

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.

In FY2027 AF ISR DI has seven primary thrusts.

1. Security Operations Center as a Service; which function include designs, development, and monitor the status of all DAF ISR CloudWorks capabilities and take action to protect the environment, data and applications with in it, recognize anomalies and defend itself and/or mitigate the effects of cyberattack.
2. Cloud Infrastructure as a Service; which function include designs, development, and provide enterprise services to customers, developers, and partners. This also includes providing security, identity management, cloud software solutions that is configured and sustained for use by all customers.
3. Platform as a Service; which function to maintain the platforms at CUI, Secret, and Top-Secret SCI, so that applications can be developed and operated without each developer/provider having to develop their own platform solution.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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

4. Software as a Service; this function so that software development tools are available for all developers to use. This service is paid to scale.

5. Software Pipeline; this service provides the ability to transfer software from a development environment that is outside of DAF ISR CloudWorks (DAF ISR Cw) to a DAF Cw platform at Secret or Top Secret/SCI. These services the software applications and mission capabilities authenticated and transferred to the operational platform to be accessed for use by operators and analysts across the globe.

6. Migration as a Service; this service provides the ability to transfer software to the cloud.

7. Enterprise Architecture; Provides model base system engineering of ISR systems using Unified Architecture Framework (UAF) for the people, processes, data, and information of the ISR roles
Provides Battlespace Characterization and Targeting Intelligence processes to understand ISR data and information

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.

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

	FY 2025	FY 2026	FY 2027
Title: SCI Cloud Service	-	21.711	24.455
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			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
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 2027 Plans: 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. 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. Expands infrastructure, platform, software, pipeline, and customer support services to fill gaps in cross domain, security, defense, and cloud provider offerings to meet requirements.&#160; &#160; FY 2026 to FY 2027 Increase/Decrease Statement: The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding.# Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.			
Accomplishments/Planned Programs Subtotals		-	21.711
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DAF Cw, Platform as a Service Support, Software as a Service Support, Software Pipeline, Migration as a Service	C/Various	CACI, Inc : Chantilly, VA	-	0.000	Jun 2025	10.399	Mar 2026	13.270	Mar 2027	-		13.270	Continuing	Continuing	-
DAF Cw, Platform as a Service Support, Software as a Service Support, Software Pipeline	C/CPFF	Booz Allen Hamilton : McLean, VA	-	0.000	Jun 2025	7.261	Mar 2026	7.395	Mar 2027	-		7.395	Continuing	Continuing	-
DAF Cw, Platform as a Service Support, Software Pipeline	C/Various	Northrop Grumman : McLean, VA	-	0.000	Jun 2025	2.051	Mar 2026	2.040	Apr 2027	-		2.040	Continuing	Continuing	-
Enterprise Architecture	C/CPFF	ICR Inc. : Aurora, CO	-	0.000	Jun 2025	1.000	Apr 2026	1.000	Mar 2027	-		1.000	Continuing	Continuing	-
Subtotal			-	0.000		20.711		23.705		-		23.705	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.750	Nov 2026	-		0.750	Continuing	Continuing	-
Subtotal			-	-		1.000		0.750		-		0.750	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.000		21.711		24.455		-		24.455	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
DAF Cw, Platform as a Service Support, Software as a Service Support, Software Pipeline, Migration as a Service																												
2																												
1																												
Enterprise Architecture																												
3																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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
<i>DAF Cw, Platform as a Service Support, Software as a Service Support, Software Pipeline, Migration as a Service</i>				
2	2	2026	4	2027
1	2	2026	4	2027
<i>Enterprise Architecture</i>				
3	2	2026	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
640141: Advanced Battle Management System (ABMS)	0.000	18.733	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

New Program Element FY 2025

Congressional technical adjustment transferred 18.733M from CAIS PE 0207431F in RDT&E for FY 2025.

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 FY 2026 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.

This program element included all necessary 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, and 0605898F

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

	FY 2025	FY 2026	FY 2027
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			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
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.			
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 FY 2026.			
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		-		-		-	Continuing	Continuing	-
2	C/CPFF	Booz Allen Hamilton : McLean, VA	-	4.848	Jun 2025	-		-		-		-	Continuing	Continuing	-
3	C/Various	Northrop Grumman : McLean, VA	-	2.896	Jun 2025	-		-		-		-	Continuing	Continuing	-
Subtotal			-	18.733		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	18.733		-		-		-		-	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026																			
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)									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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 2027 Air Force										Date: April 2026		
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 0305236F I Common Data Link Executive Agent (CDL EA)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	33.349	32.511	26.401	0.000	26.401	27.715	28.407	29.077	29.807	Continuing	Continuing
641334: Common Data Link (CDL)	0.000	33.349	32.511	26.401	0.000	26.401	27.715	28.407	29.077	29.807	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Common Data Link Executive Agent (CDL EA) provides the DoW standard for interoperable, multi-service, multi-agency, Intelligence, Surveillance, and Reconnaissance (ISR) datalinks for 15,000 DoW manned/unmanned airborne and ground terminals. The project advances CDL through partnership with each of the Services, NSA, JITC, FFRDCs, and Industry. As the DoW CDL EA, the Air Force applies CDL RDT&E Military Intelligence Program (MIP) funds, using cross-Service teams, ensuring compliance with DoW waveform 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 OSW mandates to effectively utilize spectrum, use approved cryptographic equipment, and provide direct support to current operations. CDL is a vital link in DoW'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 enable interoperable operations of current and future ISR assets worldwide by providing sensor data directly via point-to-point and networked air-to-air or compatible satellite broadcast links to ground sites, surface ships, airborne platforms, and dismounted users, supporting 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 included all necessary 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, and 0605898F.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 0305236F I Common Data Link Executive Agent (CDL EA)				
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		33.349	32.511	0.000	0.000	0.000
Current President's Budget		33.349	32.511	26.401	0.000	26.401
Total Adjustments		0.000	0.000	26.401	0.000	26.401
• 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	26.401	0.000	26.401
Change Summary Explanation						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Common Data Link (CDL) Technology Advancement				15.585	14.211	10.200
Description: CDL evolutionary concept development, exploratory prototyping, advanced technology demonstrations, and studies of emerging technologies and capability gaps.						
FY 2026 Plans:						
- Continue to research and evaluate technology developments for enhancing the 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 assess the application of CDL waveforms in proliferated Low Earth Orbit (pLEO) implementations with different pLEO vendors						
- 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.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
- Continue development of enhanced, CDL-based Intelligence, Surveillance and Reconnaissance (ISR) communication capabilities across multiple platforms and echelons among U.S and allied partners. - 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 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. - Continue to research, evaluate and develop an Open Systems Architecture to improve CDL enterprise interoperability and terminal design flexibility. - 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. - 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 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 2027 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 2027 Air Force		Date: April 2026		
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>Common Data Link Executive Agent (CDL EA)</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
- 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 2026 to FY 2027 Increase/Decrease Statement: The reduced budgetary allocations for Accomplishments/Planned Programs come from a department of War program funding cut of 20% across the FYDP. The Common Data Link (CDL) program focused on core competencies of waveform specification maintenance and updates, as well as cryptographic core modernization and SERD 2.0 compliance.				
Title: Common Data Link (CDL) Specification Development, Validation, Test and Maintenance		10.998	12.900	11.701

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 2026 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 DoW-wide interoperability testing. - Will publish Network Common Data Link (NCDL) Aurora Mode 501 Specification.				
FY 2027 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 DoW 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 2027 Air Force		Date: April 2026		
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) - Will continue development of JITC CDL test equipment capable of compliance testing to the latest, validated version of CDL specifications and enhance DoW-wide interoperability testing. - Will continue development of NCDL Aurora waveforms. FY 2026 to FY 2027 Increase/Decrease Statement: The reduced budgetary allocations for Accomplishments/Planned Programs come from a department of War program funding cut of 20% across the FYDP. The Common Data Link (CDL) program focused on core competencies of waveform specification maintenance and updates, as well as cryptographic core modernization and SERD 2.0 compliance.		FY 2025	FY 2026	FY 2027
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 2026 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 Officer (DoW CIO). - 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. - 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.		6.766	5.400	4.500

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
- 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. - 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. FY 2027 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 (DoW 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				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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) (ISR) systems. - 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 2026 to FY 2027 Increase/Decrease Statement:</i> The reduced budgetary allocations for Accomplishments/Planned Programs come from a department of War program funding cut of 20% across the FYDP. The Common Data Link (CDL) program focused on core competencies of waveform specification maintenance and updates, as well as cryptographic core modernization and SERD 2.0 compliance.		FY 2025	FY 2026	FY 2027
Accomplishments/Planned Programs Subtotals		33.349	32.511	26.401
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 DoW 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	7.400	Nov 2024	5.400	Nov 2026	4.500	Nov 2027	-		4.500	Continuing	Continuing	-
CDL Network Modernization	MIPR	Air Force : Various	-	2.760	Mar 2025	2.000	Mar 2026	2.000	Mar 2027	-		2.000	Continuing	Continuing	-
A2AD Waveform Advancement	C/CPAF	Army : Various	-	3.100	Dec 2024	5.400	Dec 2025	4.000	Dec 2026	-		4.000	Continuing	Continuing	-
CDL Cognitive Radio Networking Element (CRNE)	C/Various	Navy : Various	-	1.500	Dec 2024	1.250	Dec 2025	1.000	Dec 2026	-		1.000	Continuing	Continuing	-
CDL Waveform Integration Technology	C/CPAF	Air Force : Various	-	1.447	Feb 2025	2.300	Feb 2026	2.000	Feb 2027	-		2.000	Continuing	Continuing	-
CDL pLEO Waveform	C/CPAF	Navy : Various	-	1.250	Feb 2025	1.700	Feb 2026	0.000	Feb 2027	-		0.000	Continuing	Continuing	-
CDL Model-Based Systems Engineering	C/CPAF	Air Force : Various	-	0.403	Nov 2024	-		-		-		-	Continuing	Continuing	-
Flexible Ku-Band Adaptive Coding and Group 1/2 UAV CDL and Cryptographic SWaP	C/CPAF	Marine Corps : Various	-	0.000	Oct 2024	-		-		-		-	0.000	0.000	-
Pseudorandom Noise (PM) Code Generation	C/CPAF	Air Force : Various	-	0.000	Oct 2024	-		-		-		-	0.000	0.000	-
Open Systems Architecture Framework	C/CPAF	Navy : Various	-	0.750	Dec 2024	0.250	Dec 2025	1.200	Dec 2026	-		1.200	Continuing	Continuing	-
Subtotal			-	18.610		18.300		14.700		-		14.700	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.750	Dec 2024	4.750	Dec 2025	4.750	Dec 2026	-		4.750	Continuing	Continuing	-
NATO STANAG 7085 Support	MIPR	Air Force : Various	-	0.350	Dec 2024	0.400	Dec 2025	0.300	Dec 2026	-		0.300	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026					
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Nov 2024	0.200	Nov 2025	0.200	Nov 2026	-		0.200	Continuing	Continuing	-		
MITRE Engineering Direct Mission Support (FFRDC)	SS/CPFF	MITRE Corp : Bedford, MA	-	6.000	Oct 2024	5.750	Oct 2025	3.751	Oct 2026	-		3.751	Continuing	Continuing	-		
Subtotal			-	11.500		11.100		9.001		-		9.001	Continuing	Continuing	N/A		
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Oct 2024	0.800	Oct 2025	0.700	Oct 2026	-		0.700	Continuing	Continuing	-		
Subtotal			-	0.800		0.800		0.700		-		0.700	Continuing	Continuing	N/A		
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
PMO Support - AFLCMC (HNAG)	C/CPFF	Various : Various, MA	-	2.439	Apr 2025	2.311	Jan 2026	2.000	Jan 2027	-		2.000	Continuing	Continuing	-		
Subtotal			-	2.439		2.311		2.000		-		2.000	Continuing	Continuing	N/A		
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	33.349		32.511		26.401		-		26.401	Continuing	Continuing	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026																			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0305236F / <i>Common Data Link Executive Agent (CDL EA)</i>	Project (Number/Name) 641334 / <i>Common Data Link (CDL)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Common Data Link</i>				
CDL Technology Advancement	1	2025	4	2031
- CDL Protective Waveform (LPD/AJ) Advancement	1	2025	4	2031
- Networking (Multi-Access) Advancement	1	2025	4	2031
- BE CDL to Group 1 UAV	1	2025	4	2031
CDL Specification Development, Validation, Test and Maintenance	1	2025	4	2031
CDL Cryptographic Modernization	1	2025	4	2031
- US/Coalition Multi-algorithm Crypto Core Modules (Generation 2/3)	1	2025	4	2031
- US Multi-algorithm Crypto Core Modules (Generation 2/3)	1	2025	2	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 <i>Mission Partner Environments</i>											
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	17.765	36.755	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	54.520
643783: <i>CENTRIXs Networks</i>	0.000	17.765	36.755	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	54.520
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 War (DoW) 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.

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	18.438	14.956	0.000	0.000	0.000
Current President's Budget	17.765	36.755	0.000	0.000	0.000
Total Adjustments	-0.673	21.799	0.000	0.000	0.000
• Congressional General Reductions	-0.673	-2.901			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	24.700			
• 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

Per the MPE Functional Transfer MOA between USAF, DoW CIO and DISA regarding the orderly transition of DoW Mission Partner Environment (MPE) responsibilities from the USAF to DISA. This memo was signed in Oct 2025. Therefore, there is no funding programmed for FY27.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0305601F <i>I Mission Partner Environments</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Modular Drone and Precision Payload		-	24.700	0.000
Description: FY 2027 Mission Partner Environment requirements and resources transition from United States Air Force to DISA. Funds supported the legacy MPE capabilities including PEGASUS, the Combined Federated Battle Labs Network (CFBLNet), Command, Control, Communications, Computers, and Interoperability (C4I) Services Operations Group CSOG.				
FY 2026 Plans: 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 2027 Plans: FY 2027 Mission Partner Environment requirements and resources transition from United States Air Force to DISA. Funds supported the legacy MPE capabilities including PEGASUS, the Combined Federated Battle Labs Network (CFBLNet), Command, Control, Communications, Computers, and Interoperability (C4I) Services Operations Group CSOG. New resources: • Support modular drone agnostic accessories and precision payload system. Resources will accelerate the testing, prototyping and integration of the Zeus Multi-Mission Missile System, an advanced weapon system designed for special operations missions. This development will close a capability gap caused by 30-40-year-old legacy weapons that are heavy, unguided, expensive, and incompatible with modern autonomous platforms, enabling scalable precision strike capabilities and improving warfighter survivability. • Establish a high rate, low cost composite airframe manufacturing ecosystem using Light-Resin Transfer Molding (LP RTM), rapid cure resins, and automation. • Continuing development and production of modular, drone agnostic kinetic and non kinetic accessories (e.g., 40mm systems, 60/81mm mortar delivery, precision strike variants, electronic warfare (EW) and logistics payloads) that allow mission reconfiguration in minutes. • Develop The Multidomain Autonomous Warning System - eXtended (MAWS-X) is an applied research effort to mature a distributed passive sensing capability for detection and localization of Class 1 and Class 2 unmanned aircraft systems (UAS) operating in complex operational environments. FY 2026 to FY 2027 Increase/Decrease Statement: Per the MPE Functional Transfer MOA between USAF, DoW CIO and DISA regarding the orderly transition of DoW Mission Partner Environment (MPE) responsibilities from the USAF to DISA. This memo was signed in Oct 2025. Therefore, there is no funding programmed for FY27.				
Title: Mission Partner Environment		17.765	12.055	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0305601F <i>I Mission Partner Environments</i>							
C. Accomplishments/Planned Programs (\$ in Millions)												
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 2026 Plans: 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 2027 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 2026 to FY 2027 Increase/Decrease Statement: Per the MPE Functional Transfer MOA between USAF, DoW CIO and DISA regarding the orderly transition of DoW Mission Partner Environment (MPE) responsibilities from the USAF to DISA. This memo was signed in Oct 2025. Therefore, there is no funding programmed for FY27.										FY 2025	FY 2026	FY 2027
Accomplishments/Planned Programs Subtotals										17.765	36.755	0.000
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• O&M BA 01 PE 0305601F: <i>Mission Partner Environment</i>	185.459	134.864	132.572	-	132.572	135.719	138.981	142.698	145.596	Continuing	Continuing	
• OPAF 03 834010: <i>General Information Technology</i>	20.093	2.086	2.159	-	2.159	2.204	2.248	2.291	2.337	Continuing	Continuing	
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Capabilities	C/FFP	General Dynamics Msn Sys : Fairfax, VA	-	17.765	Feb 2025	12.055	Feb 2026	0.000	Feb 2027	-		0.000	Continuing	Continuing	-
Modular Drone and Precision Payload	Various	Not specified. : TBD	-	-		24.700		0.000		-		0.000	Continuing	Continuing	-
Subtotal			-	17.765		36.755		0.000		-		0.000	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	17.765		36.755		0.000		-		0.000	Continuing	Continuing	N/A
Remarks N/A															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026			
Appropriation/Budget Activity 3600 / 4								R-1 Program Element (Number/Name) PE 0305601F / Mission Partner Environmen ts								Project (Number/Name) 643783 / CENTRIXs Networks			

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2025	4	2031
<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	2025	4	2031
<i>Development of modular drone agnostic accessories and precision payload system</i>				
Mission Partner Environment	3	2026	4	2026

Note
N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0305913F I Persistent Surveillance							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	29.325	0.000	29.325	29.308	24.969	28.959	29.546	Continuing	Continuing
640019: NUDET Detection System (SPACE)	0.000	0.000	0.000	29.325	0.000	29.325	29.308	24.969	28.959	29.546	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0305913F, project 640019, Effort 1, is a new start.

A. Mission Description and Budget Item Justification

Nuclear Detonation Detection System (NUDET Detection System (SPACE)) investment is for the development, integration, testing and fielding of disparate technologies to provide capabilities for Nuclear and Weapons of Mass Destruction (WMD) detection and enable real-time sensing, processing, and alerting capability. This effort will establish and incorporate a digital infrastructure to provide cloud-based data and platform services that will be able to ingest Artificial Intelligence/Machine Learning (ML) and automation tools to support nuclear detection reporting in support of defense of the homeland.

This program element included all necessary 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, and 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.

B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	29.325	0.000	29.325
Total Adjustments	0.000	0.000	29.325	0.000	29.325
• 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	29.325	0.000	29.325

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0305913F I Persistent Surveillance			
Change Summary Explanation The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding.# Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Effort 1 Description: This effort will establish and incorporate a digital infrastructure to provide cloud-based data and platform services that will be able to ingest Artificial Intelligence/Machine Learning (ML) and automation tools to support nuclear detection reporting in support of defense of the homeland. FY 2026 Plans: N/A FY 2027 Plans: Effort will establish a cloud-based production environment, data pipeline and data fabric established in production environment. Produce ML Operational capability in the Test environment for future transition to production. Connect and integrate external reporting tools for validation. For Minimal Viable Product (MVP) delivers capabilities for manual processing and dissemination. For Minimum Viable Capability Release (MVCR) delivers a scalable capability for automated data collection, processing, exploitation, and dissemination of multiple sensors, covering multiple locations. Transition to Ops (TTO) will provide an operations team to perform near real-time analysis on data streams and disseminate results. FY 2026 to FY 2027 Increase/Decrease Statement: The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding.# Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.		-	0.000	29.325
Accomplishments/Planned Programs Subtotals		-	0.000	29.325
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy Acquisition Strategy is a mix of Cost-Plus Fixed Fee and Firm-Fixed Price.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0305913F / Persistent Surveillance				Project (Number/Name) 640019 / NUDET Detection System (SPACE)					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/CPAF	L3 Harris : Palm Bay, FL	-	-		-		8.910	Nov 2026	-		8.910	Continuing	Continuing	-
2	C/FFP	Kegman : Melbourne, FL	-	-		-		2.325	Dec 2026	-		2.325	Continuing	Continuing	-
3	C/FP	CSO (Vendor TBD) : TDB	-	-		-		2.200	Nov 2026	-		2.200	Continuing	Continuing	-
4	C/FFP	AWS : Seattle, FL	-	-		-		3.557	Nov 2026	-		3.557	Continuing	Continuing	-
5	C/CPIF	External Partner : TBD	-	-		-		5.100	Dec 2026	-		5.100	Continuing	Continuing	-
6	C/CPAF	External Partner IDIQ : TBD	-	-		-		4.000	Dec 2026	-		4.000	Continuing	Continuing	-
7	C/CPAF	L3 Harris : Palm Bay, FL	-	-		-		3.000	Nov 2026	-		3.000	Continuing	Continuing	-
Subtotal			-	-		-		29.092		-		29.092	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
2	C/Various	TDB : TBD	-	-		-		0.233	Nov 2026	-		0.233	Continuing	Continuing	-
Subtotal			-	-		-		0.233		-		0.233	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		29.325		-		29.325	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0305913F / <i>Persistent Surveillance</i>	Project (Number/Name) 640019 / <i>NUDET Detection System (SPACE)</i>

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
MVP																												
MVP																												
MVCR																												
MC																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0305913F / <i>Persistent Surveillance</i>	Project (Number/Name) 640019 / <i>NUDET Detection System (SPACE)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MVP</i>				
MVP	1	2027	2	2027
<i>MVCR</i>				
MC	1	2027	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0701200F / <i>Enterprise Select Class II</i>											
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.986	0.949	0.000	0.949	0.950	0.950	0.950	0.970	Continuing	Continuing
64712R: <i>Combat Ready Airmen (CRA) - RDT&E</i>	0.000	0.000	0.986	0.949	0.000	0.949	0.950	0.950	0.950	0.970	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Enterprise Select Class II (formerly Combat Ready Airman) provides resources to perform lead command roles and responsibilities and includes requirements management, test & evaluation, assurance of operational safety, suitability, and effectiveness.

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.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>
Previous President's Budget	0.000	1.000	0.000	0.000	0.000
Current President's Budget	0.000	0.986	0.949	0.000	0.949
Total Adjustments	0.000	-0.014	0.949	0.000	0.949
• 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	-0.014			
• Other Adjustments	0.000	0.000	0.949	0.000	0.949

Change Summary Explanation

The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.

<u>C. Accomplishments/Planned Programs (\$ in Millions)</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>
<i>Title:</i> Enterprise Select Class II (ESCII)	0.000	0.986	0.949

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0701200F <i>I Enterprise Select Class II</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Description: ESCII provides resources to perform lead command roles and responsibilities and includes requirements management, test & evaluation, assurance of operational safety, suitability, effectiveness, and product support management of the enterprise. FY 2026 Plans: FY26 funds Mobility Bag development, test, and evaluation of Department of the Air Force organizational clothing and individual equipment. Develops Extreme Cold Weather Boots, Arctic Equipment, and conformal body armor, and other Organizational Clothing and Individual Equipment driven by Combatant Command Theater requirements. Additionally, this effort funds development of supply chain and inventory management software. FY 2027 Plans: FY27 funds Mobility Bag development, test, and evaluation of Department of the Air Force organizational clothing and individual equipment. Efforts continuation of Extreme Cold Weather Boots, Arctic Equipment, and conformal body armor, and supply chain and inventory management software, low signature infrared equipment, and Development of and other Organizational Clothing and Individual Equipment driven by Combatant Command Theater requirements FY 2026 to FY 2027 Increase/Decrease Statement: Nominal decrease due to fluctuation in requirement changes.				
Accomplishments/Planned Programs Subtotals		0.000	0.986	0.949
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Enterprise Select Class II	Various	AFMC/A4RX - Various : Wright-Patt AFB, OH	-	-		0.986		0.949		-		0.949	Continuing	Continuing	-
Subtotal			-	-		0.986		0.949		-		0.949	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		0.986		0.949		-		0.949	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Enterprise Select Class II																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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				
Enterprise Select Class II	1	2026	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	48.361	45.918	27.475	0.000	27.475	26.393	26.893	27.405	27.957	Continuing	Continuing
648051: Rapid Sustainment Modernization Technologies	0.000	48.361	45.918	27.475	0.000	27.475	26.393	26.893	27.405	27.957	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Rapid Sustainment Modernization (RSM) program objective is to rapidly modernize sustainment practices, enhancing readiness and cutting costs by identifying, assessing, developing, validating, verifying, and deploying cutting-edge technologies across the sustainment enterprise. This program achieves this by proactively engaging stakeholders across the spectrum, from warfighters to depot and field maintenance teams, supply chains, and program offices, to pinpoint critical enterprise needs. In direct support of the Secretary of War direction to increase readiness across the Department of War, efforts within this PEC will be prioritized based on the National Defense Authorization Act (NDAA), USAF Force Design, Agile Combat Employment (ACE), and the Defense Planning Guide (DPG). These efforts will support work and collaboration efforts across the Combat Readiness Directorate in PEs 78051F, 71212F, 72833F, 64706F, 65827F, 22834F, 52834F, 28031F, 41135F and 27521F to increase readiness across the Air Force enterprise. The program maintains flexibility to adapt to the rapidly evolving technology landscape, pivoting technical areas and solutions as requirements, warfighter needs, and resource environments change.

Advanced Manufacturing Program Office (AMPO) leverages innovative technologies to create superior products, refine existing ones, and cultivate advanced production capabilities. This strengthens manufacturing quality and processes, providing warfighters with a distinct competitive advantage. The Advanced Manufacturing (AdvM) program develops additive and other advanced manufacturing capabilities to produce tools, jigs, fixtures, and aircraft components, thereby mitigating diminishing manufacturing sources, addressing material shortages, and accelerating part procurement lead times. Repair Additive Manufacturing (RAM) technologies enhance maintenance capabilities, minimize downtime, and boost operational efficiency. Furthermore, the program develops deployable AdvM and RAM capabilities for contested environments, enabling on-demand parts and tools at the point of need, along with on-site and aircraft-side repair capabilities. Automation and Robotics (A&R) efforts focus on hazardous environments, material handling, and repair, assembly, and test systems. Robotic Laser Paint Removal systems exemplify this, eliminating the need for human presence in hazardous and confined spaces. Expeditionary Combat Technologies (ECT) develops and delivers deployable structures, power and water generation tools, logistics tools to reduce logistics footprints, and enhance Airmen mission effectiveness in expeditionary and austere environments. Prototyping across these areas facilitates the integration and demonstration of emerging technologies, accelerating their transition into warfighter capabilities through iterative development and increased utilization of commercial technology.

Digital Architectures and Capabilities (DAC) is comprised of Conditioned Based Maintenance Plus (CBM+), Digital Materiel Management (DMM), and Maintenance Digital Ecosystem (MxDE). Conditioned Based Maintenance Plus is a collaborative Department of War readiness initiative centered on data analysis to transition unscheduled to scheduled maintenance, driving mission readiness improvements. It employs a failure management/data-driven decisions strategy to perform predictive/proactive maintenance, leveraging Artificial Intelligence/Machine Learning (AI/ML) capabilities to identify evidence of need to perform maintenance. Sensor based algorithms leverage AI/ML to transform onboard sensor data into component degradation detection alerts, enabling decision advantage. Predictive Analytics

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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>

and Decision Assistant (PANDA) serves as the enterprise AI/ML software platform for data analytics and visualization. Digital Materiel Management is a materiel management ecosystem powered by Always Guaranteeing Operationally Ready Aircraft (AGORA), a cloud-based ecosystem of enterprise AdvM and DMM engineering software capabilities that enable Department of Air Force (DAF) stakeholders to leverage AdvM technologies to solve supply chain challenges and improve aircraft readiness, AM Innovation Hub is a cloud-based platform for innovation and collaboration, facilitating the sharing of AM projects and files, SEEKR is a tool that provides program offices the ability to identify viable part candidates, and Part Assessment and Cost Tool (PACT) provides a decision support framework, helping program offices assess the feasibility of using additive manufacturing (AM) technologies to overcome complex supply chain problems. The MxDE leverages Lighthouse Integration Technology Engine (LITE) to integrate developmental, operational, and legacy Air Force Logistics information technology (IT) platforms within a hub-and-spoke framework modernizing USAF systems enabling disparate data to be displayed through a single pane of glass, driving decision advantage.

Funding in this PE supports agile development activities that rapidly address emergent requirements from the DAF enterprise during the year of execution. These may include addressing Diminishing Manufacturing Sources and Material Shortages, reducing unscheduled weapons system maintenance, and enabling maintenance capabilities in austere environments. The program may fund studies of new technologies to determine their applicability to DAF requirements.

This program element included all necessary 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, and 0605898F

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.

B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	50.044	32.666	0.000	0.000	0.000
Current President's Budget	48.361	45.918	27.475	0.000	27.475
Total Adjustments	-1.683	13.252	27.475	0.000	27.475
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	13.700			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.683	-0.448			
• Other Adjustments	0.000	0.000	27.475	0.000	27.475

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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)		
<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>		FY 2025	FY 2026	
Project: 648051: Rapid Sustainment Modernization Technologies				
Congressional Add: Rapid Adaptive Manufacturing for Sustainment and Affordable Mass		9.635	0.000	
Congressional Add: Automation Innovation for Sustainment		2.890	0.000	
Congressional Add: Collaborative Logistics Aircraft		0.000	8.700	
Congressional Add: Predictive Analytics and Decision Assistant		0.000	5.000	
Congressional Add Subtotals for Project: 648051		12.525	13.700	
Congressional Add Totals for all Projects		12.525	13.700	
Change Summary Explanation				
The FY2026 President's Budget submittal did not reflect the FY2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Rapid Sustainment Modernization - Advanced Manufacturing		18.805	23.437	27.475
Description: Advanced Manufacturing uses innovative technologies to create new products, refine existing products, and perform production activities that will improve the quality and process of manufacturing to give warfighters a competitive edge: impacts fleet readiness and availability.				
FY 2026 Plans: -Continue to address limitations in supply chain and traditional manufacturing by providing production of tools, jigs, fixtures, and aircraft components to reduce part procurement lead time. Additive Manufacturing provides for the qualification of machines and characterization of materials to determine appropriate applications for the Air Force sustainment enterprise. Repair Additive Manufacturing (RAM) Technologies enhance maintenance capabilities, reduce downtime, and improve operational efficiency. Continue to develop deployable capabilities in direct support of the Secretary of War's direction to increase readiness. Automation and Robotics (A&R) vertical focus areas of Hazardous Environments, Material Handling, and Repair, Assembly and Test Systems. Robotic Laser Paint Removal systems alleviate the need for humans in hazardous conditions and confined spaces. Expeditionary Combat Technologies (ECT) deployable structures, power and water generation tools, logistics tools to reduce logistics footprint enhance Airmen mission effectiveness in expeditionary and austere environments in support of the Agile Combat Employment.				
FY 2027 Plans: -Continue to address limitations in supply chain and traditional manufacturing by providing production of tools, jigs, fixtures, and aircraft components to reduce part procurement lead time. Additive Manufacturing provides for the qualification of machines and				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
characterization of materials to determine appropriate applications for the Air Force sustainment enterprise. Repair Additive Manufacturing (RAM) Technologies enhance maintenance capabilities, reduce downtime, and improve operational efficiency. Continue to develop deployable capabilities in direct support of the Secretary of War's direction to increase readiness. Automation and Robotics (A&R) vertical focus areas of Hazardous Environments, Material Handling, and Repair, Assembly and Test Systems. Robotic Laser Paint Removal systems alleviate the need for humans in hazardous conditions and confined spaces. Expeditionary Combat Technologies (ECT) deployable structures, power and water generation tools, logistics tools to reduce logistics footprint enhance Airmen mission effectiveness in expeditionary and austere environments in support of the Agile Combat Employment. FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 funding increased compared to FY 2026 by \$4.038 million due to realignment of Digital Materiel Management efforts to Digital Architectures and Capabilities.				
Title: Rapid Sustainment Modernization - Digital Architectures and Capabilities Description: Digital Architectures and Capabilities (DAC) is comprised of Condition Based Maintenance Plus (CBM+), Digital Material Management (DMM), and Maintenance Digital Ecosystem (MxDE). FY 2026 Plans: -Continue development for Digital Architectures and Capabilities, comprised of CBM+, DMM, and MxDE. Conditioned Based Maintenance Plus is a failure management/data-driven decisions strategy to perform predictive/proactive maintenance based on employing AI/ML capabilities to identify evidence of need. Digital Materiel Management employs AGORA, SEEKR, and PACT to identify advanced manufacturing part candidates and gain approval to use advanced manufacturing capabilities. The MxDE leverages LITE to integrate developmental, operational, and legacy LogIT platforms to modernize USAF systems and aircraft sustainment processes. Fields a centralized capability enabling intercommunication between multiple LogIT systems enabling decision advantage. FY 2027 Plans: -Continue development for Digital Architectures and Capabilities (DAC), comprised of Conditioned Based Maintenance Plus (CBM+), Digital Materiel Management (DMM), and Maintenance Digital Ecosystem (MxDE). Conditioned Based Maintenance Plus is a failure management/data-driven decisions strategy to perform predictive/proactive maintenance based on employing AI/ML capabilities to identify evidence of need. Digital Materiel Management employs AGORA, SEEKR, and PACT to identify advanced manufacturing part candidates and gain approval to use advanced manufacturing capabilities. The MxDE leverages LITE to integrate developmental, operational, and legacy LogIT platforms to modernize USAF systems and aircraft sustainment processes. Fields a centralized capability enabling intercommunication between multiple LogIT systems enabling decision advantage. FY 2026 to FY 2027 Increase/Decrease Statement:		17.031	8.781	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force								Date: April 2026			
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 2025	FY 2026	FY 2027	
FY 2027 funding decreased compared to FY 2026 by \$8.781 million due to the result of the final year of Group 2 Rapid Sustainment Improvement Program (RSIP) funding and other competing priorities.											
Accomplishments/Planned Programs Subtotals								35.836	32.218	27.475	
								FY 2025	FY 2026		
Congressional Add: Rapid Adaptive Manufacturing for Sustainment and Affordable Mass								9.635	0.000		
FY 2025 Accomplishments: Conducted congressionally directed effort.											
FY 2026 Plans: Not applicable.											
Congressional Add: Automation Innovation for Sustainment								2.890	0.000		
FY 2025 Accomplishments: Conducted congressionally directed effort.											
FY 2026 Plans: Not applicable.											
Congressional Add: Collaborative Logistics Aircraft								0.000	8.700		
FY 2025 Accomplishments: Not applicable.											
FY 2026 Plans: Conducted congressionally directed effort.											
Congressional Add: Predictive Analytics and Decision Assistant								0.000	5.000		
FY 2025 Accomplishments: Not applicable.											
FY 2026 Plans: Conducted congressionally directed effort.											
Congressional Adds Subtotals								12.525	13.700		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 04 845010: Base Procured Equipment	36.939	22.671	22.486	-	22.486	22.963	23.410	23.858	24.335	Continuing	Continuing
Remarks											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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)	
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Various	Various : Wright Patterson, OH	-	8.384	Dec 2024	10.185	Dec 2025	13.929	Dec 2026	-		13.929	Continuing	Continuing	-
Digital Architectures and Capabilities	Various	Various : Wright Patterson, OH	-	11.874	Dec 2024	8.781	Dec 2025	0.000	Dec 2026	-		0.000	Continuing	Continuing	-
RSM Technologies (Prior FYs to FY 2025)	Various	Various : Wright Patterson, OH	-	5.937	Dec 2024	-		-		-		-	Continuing	Continuing	-
Rapid Adaptive Manufacturing for Sustainment and Affordable Mass	Various	Not specified. : TBD	-	9.635	Jun 2026	-		-		-		-	Continuing	Continuing	-
Automation Innovation for Sustainment	MIPR	Not specified. : TBD	-	2.890	Nov 2025	-		-		-		-	Continuing	Continuing	-
Collaborative Logistics Aircraft	TBD	Not specified. : TBD	-	-		8.700		-		-		-	Continuing	Continuing	-
Predictive Analytics and Decision Assistant	TBD	Not specified. : TBD	-	-		5.000		-		-		-	Continuing	Continuing	-
Subtotal			-	38.720		32.666		13.929		-		13.929	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.546	Dec 2024	4.782	Dec 2025	4.822	Dec 2026	-		4.822	Continuing	Continuing	-
Subtotal			-	4.546		4.782		4.822		-		4.822	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	5.095	Dec 2024	8.470	Dec 2025	8.724	Dec 2026	-		8.724	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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					
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			-	5.095		8.470		8.724		-		8.724	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	48.361		45.918		27.475		-		27.475	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
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			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Digital Architectures and Capabilities																												
Congressional Adds																												
Rapid Adaptive Manufacturing for Sustainment and Affordable Mass																												
Automation Innovation for Sustainment																												
Collaborative Logistics Aircraft																												
Predictive Analytics and Decision Assitant																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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
Rapid Sustainment Modernization				
Advanced Manufacturing	1	2025	4	2031
Digital Architectures and Capabilities	1	2025	4	2031
Congressional Adds				
Rapid Adaptive Manufacturing for Sustainment and Affordable Mass	3	2026	3	2028
Automation Innovation for Sustainment	1	2026	1	2027
Collaborative Logistics Aircraft	3	2026	1	2027
Predictive Analytics and Decision Assitant	3	2026	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	3.023	1.970	1.652	0.000	1.652	1.651	1.649	1.680	1.712	0.000	13.337
648737: <i>Studies in Sexual Assault Prevention</i>	0.000	3.023	1.970	1.652	0.000	1.652	1.651	1.649	1.680	1.712	0.000	13.337
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 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		3.006	1.997	0.000	0.000	0.000
Current President's Budget		3.023	1.970	1.652	0.000	1.652
Total Adjustments		0.017	-0.027	1.652	0.000	1.652
• 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	-0.027			
• Other Adjustments		0.017	0.000	1.652	0.000	1.652
C. Accomplishments/Planned Programs (\$ in Millions)						
Title: ORION Continuous Capability & Case Management Framework Development				FY 2025	FY 2026	FY 2027
				3.023	1.970	1.652

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0808736F / <i>Special Victim Accountability and Investigation</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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 2026 Plans: - Continuing iterative software development and integration of the ORION unclassified and classified application components - Optimizing, test and sustain ORION cloud implementations - Establishing, 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. - Continuing to ensure robust ORION system security and support the Risk Management Framework [RMF] through continuous monitoring activities - Continuing to support 24/7 operations for global ORION user community through Help Desk operations, functional expertise, technical support, and other user needs - Continuing to operate, manage, and maintain ORION application and ORION cloud environment - Continuing to deploy fixes to address new and existing software defects and user-identified problems FY 2027 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 2026 to FY 2027 Increase/Decrease Statement:				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.				
Accomplishments/Planned Programs Subtotals		3.023	1.970	1.652
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 2027 Air Force												Date: April 2026					
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)					
3600 / 4						PE 0808736F / Special Victim Accountability and Investigation						648737 / Studies in Sexual Assault Prevention					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.767	Feb 2025	1.173	Jun 2026	0.853	Jun 2027	-		0.853	Continuing	Continuing	-		
ORION: Cloud Hosting	MIPR	AFLCMC : Hanscom, MD	-	0.296	Dec 2024	0.250	Mar 2026	0.250	Mar 2027	-		0.250	Continuing	Continuing	-		
Subtotal			-	2.063		1.423		1.103		-		1.103	Continuing	Continuing	N/A		
Remarks																	
ORION program consolidated cloud and application management services.																	
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Jun 2027	-		0.250	Continuing	Continuing	-		
Subtotal			-	0.195		0.250		0.250		-		0.250	Continuing	Continuing	N/A		
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Jun 2027	-		0.200	Continuing	Continuing	-		
ORION: Program Support	C/CPAF	TBD : TBD	-	0.191	Dec 2024	0.097	Jun 2026	0.099	Jun 2027	-		0.099	Continuing	Continuing	-		
Subtotal			-	0.765		0.297		0.299		-		0.299	Continuing	Continuing	N/A		
Remarks																	
ORION program consolidated cloud and application management services.																	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	-	3.023		1.970		1.652		-		1.652	Continuing	Continuing	N/A	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 4						PE 0808736F / Special Victim Accountability and Investigation						648737 / Studies in Sexual Assault Prevention			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	5.041	5.096	4.271	0.000	4.271	4.358	4.437	4.520	4.613	Continuing	Continuing
648737: Sexual Assault Prvntion Study	0.000	5.041	5.096	4.271	0.000	4.271	4.358	4.437	4.520	4.613	Continuing	Continuing
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 2027 Air Force		Date: April 2026
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 2027 Air Force				Date: April 2026		
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				
- 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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		5.364	5.167	0.000	0.000	0.000
Current President's Budget		5.041	5.096	4.271	0.000	4.271
Total Adjustments		-0.323	-0.071	4.271	0.000	4.271
• 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	-0.071			
• Other Adjustments		-0.323	0.000	4.271	0.000	4.271
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: ISDVP Research & Development				5.041	5.096	4.271
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.						
FY 2026 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0808737F <i>I Integrated Primary Prevention</i>			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
- 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 2027 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 2026 to FY 2027 Increase/Decrease Statement:</i> N/A				
Accomplishments/Planned Programs Subtotals		5.041	5.096	4.271
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 2027 Air Force		Date: April 2026
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 2027 Air Force													Date: April 2026		
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0808737F / Integrated Primary Prevention				Project (Number/Name) 648737 / Sexual Assault Prevention Study					

Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.477	Feb 2025	1.129	Mar 2026	4.271	Mar 2027	-		4.271	Continuing	Continuing	-
ORION: Cloud Hosting	MIPR	AFLCMC : Hanscom, MA	-	0.100	Dec 2024	0.100	Mar 2026	-		-		-	Continuing	Continuing	-
ISDVP: Application Development	C/FFP	TBD : TBD	-	0.438	Mar 2025	0.425	Mar 2026	-		-		-	Continuing	Continuing	-
ISDVP: Edu/Training Modernization	C/FFP	TBD : TBD	-	0.402	Mar 2025	0.294	Mar 2026	-		-		-	Continuing	Continuing	-
ISDVP: Trend Analysis	C/FFP	TBD : TBD	-	0.401	Mar 2025	0.441	Mar 2026	-		-		-	Continuing	Continuing	-
ISDVP: Curriculum Development/Implementation/Evaluation	C/FFP	TBD : TBD	-	1.081	Mar 2025	1.432	Mar 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	3.899		3.821		4.271		-		4.271	Continuing	Continuing	N/A

Remarks
 - ORION: ORION program is accounted for in PE 0808736F.

Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.200	Dec 2024	0.250	Dec 2025	-		-		-	Continuing	Continuing	-
Subtotal			-	0.200		0.250		-		-		-	Continuing	Continuing	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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0808737F / Integrated Primary Prevention					Project (Number/Name) 648737 / Sexual Assault Prevention Study				
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.610	Oct 2024	0.680	Oct 2025	-		-		-	Continuing	Continuing	-
ORION: Program Support	C/CPAF	TBD : TBD	-	0.132	Dec 2024	0.145	Dec 2025	-		-		-	Continuing	Continuing	-
ISDVP: Application Management	C/CPAF	TBD : TBD	-	0.100	Dec 2024	0.100	Dec 2025	-		-		-	Continuing	Continuing	-
ISDVP: Program Support	C/CPAF	TBD : TBD	-	0.100	Dec 2024	0.100	Dec 2025	-		-		-	Continuing	Continuing	-
Subtotal			-	0.942		1.025		-		-		-	Continuing	Continuing	N/A
Remarks															
- ORION: ORION program is accounted for in PE 0808736F.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	5.041		5.096		4.271		-		4.271	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force											Date: April 2026				
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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
<i>ISDVP Research & Development</i>				
Community Action Plan System Development, Test, & Deployment	1	2025	1	2025
Education/Training Modernization Development, Test, & Implementation	1	2025	4	2027
Trend Analysis	1	2025	4	2025
Curriculum Development/Implementation, & Evaluation	1	2025	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 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	28.088	28.876	25.815	0.000	25.815	22.952	18.176	18.496	19.030	Continuing	Continuing
643483: CON-IT	0.000	28.088	28.876	25.815	0.000	25.815	22.952	18.176	18.496	19.030	Continuing	Continuing
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 \$240+ 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). This requirement 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 War's (DoW) first contract writing system meeting Section 862 of FY13 NDAA requirements implementing DoW 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.

CON-IT directly supports the aim of improving government efficiency and fiscal responsibility. Specifically, it addresses objectives focused on Federal Procurement, Defense Acquisitions, Innovation, and Waste Reduction. By streamlining processes and enhancing compliance, CON-IT will provide unprecedented visibility into acquisition, supply chain, and budget execution, enabling data-driven, cost-effective decision-making.

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 FY2019; first and only service to comply with the original Office of the Secretary of War (OSW) SPS sunset mandate)
- Capability 2: Modernize contract writing capability for the contingency contracting community, sunseting O'Contrax system. (Completed in FY2020)

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
• Capability 3: Modernize contract writing capability for 2,500 Weapon Systems contracting users, sunsetting 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. (Minimum Viable Product (MVP) Fielded in FY2024; Will be complete when ConWrite sunsets) • Capability 4: Deliver Business Intelligence (BI) capability to provide timely and reliable data for decision makers across the entire DAF. (MVP Fielded in FY2023; Will be complete when ConWrite sunsets) • Capability 5: Modernize capability to meet the unique classified needs within all contracting communities. (MVP Fielded in FY2025; Will be complete when ConWrite sunsets) • Capability 6: Modernize capability to meet the unique needs of the Research & Development contracting community to execute grants and cooperative agreements. (MVP Fielded in FY2026; Will be complete when ConWrite sunsets) • 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 on the critical path to decommission KT File Share and is planned to be complete in FY2026. • Capability 8: Modernize contract writing capability for 1,500 Logistics contracting community users to award weapon system sustainment product support/logistics requirements. Enables the Department of the Air Force (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 in FY2029 with the MVP projected for FY2028.		
Thus far, CON-IT has successfully fielded six (Capabilities 1-6), 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 6,970 active users across 348 procurement organizations worldwide as of 4QFY2025. In FY2025, CON-IT awarded 86,931 contracting actions totaling 65.4 billion compared to 75,181 contract actions totaling 42.5 billion in FY2024. 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 Office of the Secretary of War (OSW) mandates, coordinate DevSecOps, and improve infrastructure and system performance. This program element included all necessary 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. 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 2027 Air Force				Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		28.995	29.277	0.000	0.000	0.000	
Current President's Budget		28.088	28.876	25.815	0.000	25.815	
Total Adjustments		-0.907	-0.401	25.815	0.000	25.815	
• 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		-0.907	-0.401				
• Other Adjustments		0.000	0.000	25.815	0.000	25.815	
Change Summary Explanation							
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: CON-IT System Development					28.088	28.876	25.815
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 Minimum Viable Product (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 Department of the Air Force (DAF) fielded MVP Capabilities 1, 2, 3, 4, 5, and 6 and deployed CON-IT to the operational/installation, contingency contracting, and Weapon Systems communities. Capability 7 is in work.							
In FY2025, the DAF delivered CON-IT to 2244 ConWrite and 511 Automated Contract Preparation System (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 6,970. Additional users will be added as capabilities are developed, including additional classified users and E-Filing users in FY2026.							
FY 2026 Plans:							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
The Department of the Air Force (DAF) delivered the Minimum Viable Product (MVP) for Capability 6 (Research and Development (R&D) contracting), will deliver the MVP for Capability 7 (E-Filing), and will start on the development for Capability 8 (Logistics). Examples of specific requirements to be addressed in FY2026 are included below: - Continue Procurement Data Standard (PDS) 2.7 Standard Line of Accounting (SLOA) improvements for financial transparency and auditability - Continue software development work to support Contract migration from legacy systems - Finalize development work and field MVP version of R&D (Grants, Agreements, Other Transaction Solution) - Finalize development work and field MVP version of E-Filing; improve system performance and data handling for larger and more complex transactions - Begin development for Logistics MVP, which will include functional development and interface adjustments - Continue enhancements for Classified Users and roll out classified MVPs for R&D and E-Filing - Continue to develop Business Intelligence functionality to enhance contract writing and reporting capability - Continue to develop business rules to improve data compliance by ensuring users comply with existing regulations, Procurement Data Standards (PDS), and Assistance Data Standards (ADS) - Continue to leverage Agile methods and cadence to resolve existing/new defects and add enhancements in the production environment - Continue to develop system updates required to maintain compliance with Federal and Office of the Secretary of War (OSW) 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 2027 Plans: The DAF will continue development activities for Capability 8 (Logistics). Examples of specific requirements to be addressed in FY2027 are included below: - Will implement capability for Conformance checks across systems, enabling automatic Administrative Contracting Officer (ACO) modification ingestion - Will implement capability to capture complex Packing and Marking instruction - Will continue 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 continue development and deployment for classified CON-IT community - Will continue to leverage Agile methods and cadence to resolve existing/new defects and add enhancements in the production environment				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026									
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>I Contracting Information Technology System</i>										
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027							
- Will continue to develop system updates required to maintain compliance with Federal and Office of the Secretary of War (OSW) 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 to FY 2027 Increase/Decrease Statement: Funding decreased due to burndown post Minimum Viable Product (MVP) Capability deliveries.											
Accomplishments/Planned Programs Subtotals		28.088	28.876	25.815							
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 03 834010: <i>General Information Technology</i>	1.509	2.329	0.000	-	0.000	0.000	-	-	-	0.000	3.838
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 Department of the Air Force (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 FY2024. The Identity, Credential, and Access Management (ICAM) solution of SailPoint was implemented during a soft roll-out in FY2025 with a full rollout to the contracting community in January 2026. 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.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026					
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)					
3600 / 4						PE 0901410F / Contracting Information Technology System						643483 / CON-IT					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	14.561	Dec 2024	14.970	Dec 2025	13.383	Dec 2026	-		13.383	Continuing	Continuing	-		
CON-IT: Architecture, SE/ PM, and Compliance	MIPR	USDA : Various	-	5.159	Dec 2024	5.304	Dec 2025	4.742	Dec 2026	-		4.742	Continuing	Continuing	-		
CON-IT: Platform DevSecOps	MIPR	USDA : Various	-	1.954	Dec 2024	2.009	Dec 2025	1.796	Dec 2026	-		1.796	Continuing	Continuing	-		
CON-IT: Other Direct Costs	MIPR	USDA : Various	-	0.575	Dec 2024	0.591	Dec 2025	0.528	Dec 2026	-		0.528	Continuing	Continuing	-		
Subtotal			-	22.249		22.874		20.449		-		20.449	Continuing	Continuing	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	5.839	Dec 2024	6.002	Dec 2025	5.366	Dec 2026	-		5.366	Continuing	Continuing	-		
Subtotal			-	5.839		6.002		5.366		-		5.366	Continuing	Continuing	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 2027 Air Force											Date: April 2026				
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	28.088		28.876		25.815		-		25.815	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0901410F / Contracting Information Technology System						Project (Number/Name) 643483 / CON-IT			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 6: Plan, Develop, Test, and Deploy R&D Capability MVP																												
Capability 7: Plan, Develop, Test, and Deploy E-Filing Capability MVP																												
Continuous Capability Development and Migration from Legacy ConWrite																												
Capability 8: Plan, Develop, Test, and Deploy Logistics Capability MVP																												
Continuous Capability Development and Migration from Legacy ACPS																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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 6: Plan, Develop, Test, and Deploy R&D Capability MVP	1	2025	1	2026
Capability 7: Plan, Develop, Test, and Deploy E-Filing Capability MVP	1	2025	3	2026
Continuous Capability Development and Migration from Legacy ConWrite	1	2025	1	2028
Capability 8: Plan, Develop, Test, and Deploy Logistics Capability MVP	3	2026	2	2028
Continuous Capability Development and Migration from Legacy ACPS	2	2027	2	2029

Note

Minimum Viable Product (MVP): Only essential functionality that solves a core user problem, often called the "minimum feature set". The product must work well enough to be usable and provide value to early adopters. Capability MVP end dates do not mark end of capability development.

- Research and Development (R&D) MVP (Capability 6) delivery was accelerated to 1QFY2026, four months ahead of the original schedule, to accelerate the sunsetting of the legacy ConWrite system.

- E-Filing MVP (Capability 7) delivery was adjusted by four months (to 3QFY2026) due to reprioritizing resources for accelerated R&D MVP delivery and revised E-Filing MVP scope.

- Continuous Capability Development continues to implement new capabilities post MVP deliveries, supports contract migration from legacy systems, and maintains system compliance with modern data standards, Department of War (DoW) mandates, and auditability objectives.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 1206415F I U.S. Space Command Research and Development Support							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	23.553	33.205	34.719	0.000	34.719	37.748	40.414	44.225	45.120	Continuing	Continuing
641234: USSPACECOM Rapid Prototype Demonstration	0.000	23.553	33.205	34.719	0.000	34.719	37.748	40.414	44.225	45.120	Continuing	Continuing

A. Mission Description and Budget Item Justification

The U.S. Space Command Research and Development program will ensure a comprehensive military advantage in space by integrating existing space capabilities from the Armed Services and the Intelligence Community with innovations from national laboratories and commercial partners. The program will promote responsible behavior in space, advocate greater space capabilities, and collaborate with industry partners to achieve national space objectives. This will be accomplished through the acceleration of technology demonstrations, rapid operational prototyping, and experimentation to increase lethality. The RDT&E program will also conduct assessments of current and possible future space-based effects via model-based analysis.

The Capability and Verification Environment (CAVE) Lab will support the prioritized analysis of space systems, including:

- Position, Navigation and Timing (PNT)
- Satellite Communications (SATCOM)
- Missile Warning/Golden Dome
- Intelligence, Surveillance, and Reconnaissance (ISR) capabilities and Integration
- Space Domain Awareness (SDA) and sensing needs
- Orbital Warfare systems
- Ground Infrastructure/Command and Control (C2) studies

This will inform service capability roadmaps and funding to meet the required effects for the Space Area of Responsibility (AOR).

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 2027 Air Force				Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	24.446	36.913	0.000	0.000	0.000
Current President's Budget	23.553	33.205	34.719	0.000	34.719
Total Adjustments	-0.893	-3.708	34.719	0.000	34.719
• Congressional General Reductions	-0.893	-3.246			
• 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	-0.462			
• Other Adjustments	0.000	0.000	34.719	0.000	34.719
Change Summary Explanation					
FY 2025 Changes:					
• Congressional: -\$.893 Congressional reduction due to insufficient justification					
• Other Adjustments: \$15.644 transfer from USSPACECOM Service Support Activities Program Element 1202140F					
FY26 Changes:					
• Congressional: -\$3.246 reduction due to program carryover					
• SBIR/STTR: -\$.462					
FY27 Changes:					
• -\$4.7M reduces RDT&E to align with SecWar's highest priorities—strengthen readiness, modernize capabilities, and sustaining the forces.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
641234: USSPACECOM Rapid Prototype Demonstration	0.000	23.553	33.205	34.719	0.000	34.719	37.748	40.414	44.225	45.120	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The U.S. Space Command Research and Development program will ensure a comprehensive military advantage in space by integrating existing space capabilities from the Armed Services and the Intelligence Community with innovations from national laboratories and commercial partners. The program will promote responsible behavior in space, advocate greater space capabilities, and collaborate with industry partners to achieve national space objectives. This will be accomplished through the acceleration of technology demonstrations, rapid operational prototyping, and experimentation to increase lethality. The RDT&E program will also conduct assessments of current and possible future space-based effects via model-based analysis.

The Capability and Verification Environment (CAVE) Lab will support the prioritized analysis of space systems, including:

- Position, Navigation and Timing (PNT)
- Satellite Communications (SATCOM)
- Missile Warning/Golden Dome
- Intelligence, Surveillance, and Reconnaissance (ISR) capabilities and Integration
- Space Domain Awareness (SDA) and sensing needs
- Orbital Warfare systems
- Ground Infrastructure/Command and Control (C2) studies

This will inform service capability roadmaps and funding to meet the required effects for the Space Area of Responsibility (AOR).

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

	FY 2025	FY 2026	FY 2027
Title: Classified Space Threat-Based Studies and Analysis	3.764	6.155	6.900
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 2026 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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 2025	FY 2026	FY 2027
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 OUSW, Service, and Agency capability demonstrations, project reviews, and technical interchanges for project endorsement and advocacy. FY 2027 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. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to increase in requirements.					
Title: Commercial Capability Platform Integration into USSPACECOM Operations 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 DoW contractors, universities, and other non-federal entities can collaborate and demonstrate capabilities. FY 2026 Plans: Provide an environment for commercial partner collaboration; and threat and information sharing. FY 2027 Plans: Provide an environment for commercial partner collaboration; and threat and information sharing. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to increase in requirements.			0.250	0.250	0.250
Title: Contested Space Modeling for Capabilities, Analysis, and Verification Environment (CAVE) 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 2026 Plans: Baseline development of software and tools to model contested space			6.054	11.800	12.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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 2025	FY 2026	FY 2027
- 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 2027 Plans: Expand capabilities in: - 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 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to increase in requirements.					
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 2026 Plans:			3.000	4.000	4.550

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 2027 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 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to increase in requirements.				
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 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 2027 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 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to increase in requirements.		7.735	8.000	8.019
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.		0.550	0.500	0.250

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
<i>FY 2026 Plans:</i> Develop NAVWAR defeat techniques that are applicable to the Indo Pacific AOR. Procure modeling and simulation capabilities for a special program certified test environment. <i>FY 2027 Plans:</i> Develop NAVWAR defeat techniques that are applicable to the Indo Pacific AOR. Procure modeling and simulation capabilities for a special program certified test environment. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding increased due to increase in requirements.			
<i>Title:</i> Lighthouse <i>Description:</i> Lighthouse is a classified project. It will integrate and upgrade sensors. <i>FY 2026 Plans:</i> 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 <i>FY 2027 Plans:</i> Manage and oversee command and control integration efforts. Establish procedures and develop tools for orchestration of sensors, to include Upgraded Early Warning Radars, to account for sensor downtimes and operational requirements. Continued testing of sensors and machine-to-machine tasking to enhance command and control of sensors. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding increased due to increase in requirements.		2.200	2.500
Accomplishments/Planned Programs Subtotals		23.553	33.205
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.582		4.000		3.600		-		3.600	Continuing	Continuing	-
Space Operations Research, Development and Experimentation	MIPR	GTRI, USARMY, NRL Various : Colorado Springs, CO	-	1.000		8.000		15.122		-		15.122	Continuing	Continuing	-
Position Navigation and Timing Operational Field Assessments	MIPR	CECOM : Offutt AFB, NE	-	0.650	Oct 2024	0.500	Oct 2025	0.660		-		0.660	Continuing	Continuing	-
Subtotal			-	5.232		12.500		19.382		-		19.382	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	7.107		11.800		5.302		-		5.302	Continuing	Continuing	-
Lighthouse	MIPR	GSA/FAS/FEDSIM : TBD	-	2.200	Jan 2025	2.500	Jan 2026	3.195	Jan 2027	-		3.195	Continuing	Continuing	-
Subtotal			-	9.307		14.300		8.497		-		8.497	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	8.764	Nov 2024	6.155		6.500		-		6.500	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.250	Jul 2025	0.250	Jul 2026	0.340	Jul 2027	-		0.340	Continuing	Continuing	-
Subtotal			-	9.014		6.405		6.840		-		6.840	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	23.553		33.205		34.719		-		34.719	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	2025	4	2030
Commercial Capability Platform Integration into USSPACECOM Operations	1	2025	4	2030
Contested Space Modeling for Capabilities, Analysis, and Verification Environment (CAVE)	1	2025	4	2030
Space Operations Application Prototyping and Integration	4	2025	4	2030
Space Operations Research, Development, and Experimentation	1	2025	4	2030
Navigation Warfare (NAVWAR)				
NAVWAR Operational Field Assessments	1	2025	4	2030
Create / Maintain NAVWAR Knowledge	1	2025	4	2030
NAVWAR Operational and CONOPS Events	1	2025	4	2030
Lighthouse				
Integrate/Upgrade Sensors	1	2025	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	8.290	52.398	35.142	0.000	35.142	26.247	29.473	30.143	30.755	Continuing	Continuing
653133: Armament Subsystems	0.000	8.290	52.398	35.142	0.000	35.142	26.247	29.473	30.143	30.755	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Future Advanced Weapon Analysis & Programs (FAWAP) enables Air Force enterprise weapons capability planning through the generation and execution of new and emerging requirements and trade space analysis. This encompasses studies of emerging weapons system gaps and the operational analysis of technology insertion for legacy and future systems. The outcomes of these studies drive responsive design and development engineering to support the determination, exploration, and execution of feasible solutions through advanced technology prototype development and rapid fielding.

Efforts under this program element explore: new and future concept developments and analyses in response to stakeholder engagements; technology transitions and common enterprise needs; air-to-ground, ground-to-launch, and air-to-air fieldable demonstrations and solutions; and the delivery of quick-reaction materiel 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 Modeling, Simulation and Analysis (MS&A) and experimental platforms for weapon qualification activities; improve safety; identify technology gaps; and ensure viability and durability of future weapons programs.

Projects in this program element implement the Digital Acquisition tenets of Open, Agile, and Digital in support of all Air Force weapons by conducting high fidelity MS&A to support the development, testing, and evaluation of future concept and legacy weapons. Projects under this program element utilize design, development, test, integration, and implementation of appropriate modular open systems approaches, related components, and efforts, including, but not limited to, logical and physical interfaces defined in Weapon Open System Architecture (WOSA). 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 FY2026 spend plan amount for Research, Development, Test & Evaluation, Air Force, includes \$52,398 thousand of discretionary and \$80,000 thousand of mandatory (reconciliation) for a total of \$132,398 thousand.

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

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 2027 Air Force				Date: April 2026		
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				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	7.205	36.125	0.000	0.000	0.000	
Current President's Budget	8.290	52.398	35.142	0.000	35.142	
Total Adjustments	1.085	16.273	35.142	0.000	35.142	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	-14.460				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	31.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	1.300	0.000				
• SBIR/STTR Transfer	-0.215	-0.267				
• Other Adjustments	0.000	0.000	35.142	0.000	35.142	
Change Summary Explanation						
FY2025 adjustment of \$1.085 million as a result of Below Threshold Reprogramming (BTR) of \$1.300 million from Manned Destructive Suppression and -\$.215 million for SBIR.						
FY2026 adjustment of \$16.273 million due to -\$14.460 million for congressional reduction for unjustified growth; \$31.000 million due to congressional adds for additively manufactured turbine engines, affordable mass cruise missile, extended range attack munition, and modeling and simulation environment for collaborative weapon autonomy; and -\$.267 million for SBIR.						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Capability Strategy Development				4.158	34.482	22.055
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 2026 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Made progress with the Software Defined Radio, Common Flight Safety System and other projects directed to these efforts. Continued to 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. Evaluated industrial base implementation of agile acquisition initiatives like open systems architecture and digital engineering for future capabilities. Explored low-cost initiatives such as ground-launched and air-to-air. FY 2027 Plans: Continue Software Defined Radio NSA Certification Efforts and radio development, Common Flight Safety System development and environmental testing. Continue Long Range Kill Chain Modeling, Simulation, and Analysis tool development. Continue prototyping and demonstrations of adaptable affordable mass weapon systems, subsystems, and components to prove feasibility and manufacturability. Plan and prepare for prototype transition activities into air-to-air, long-range strike, and maritime strike mission areas as appropriate. Continue to incentivize industry base implementation of agile, adaptable acquisition tenants such as modular open systems architecture, digital engineering, and advanced manufacturing for future weapon capabilities. FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to the Software Defined Radio element transition from Disruptive Future Division to Long Range Strike.				
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. Enables Air Force enterprise weapons capability planning through the generation and execution of new and emerging requirements and trade space analysis, the outcome of which feeds the semi-annual, joint General Officer Steering Group, the Weapons Conclave (WEPCON), a joint decision-making body co-chaired by the USAF Program Acquisition Executive (PAE) for Weapons and the USN Program Executive Officer for Unmanned Aviation and Strike Weapons (PEO U&W). FY 2026 Plans: Conducted multiple analytical assessments in accordance with the Defense Planning Scenario with key stakeholders. Assessed Analysis of Alternatives results to prototype weapon system and subsystem concepts. Analyzed feasibility of attributes and technologies for incorporation into requisite phases of the acquisition life cycle in concert with key stakeholders. Transitioned armament concepts with effects to program offices, war games and flag exercises. Established new M&S capabilities to expand modeling to predict and better validate products. FY 2027 Plans: Expand on foundational M&S program development and operational analysis tactics, techniques and procedures. Synchronize research efforts with developmental weapon programs and portfolio capability gap road maps. Broaden analysis iterations		1.805	12.238	9.678

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
for additional defense planning scenarios and catalogue resulting study data. Bolster organic M&S capability and stakeholder endorsement for development of leadership's decision supporting data.				
FY 2026 to FY 2027 Increase/Decrease Statement: Decrease from FY2026 to FY2027 due to reduced efforts in Continuous Munitions Analysis (CMA) and SFences Digital Software.				
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.		1.549	5.678	3.409
FY 2026 Plans: Progressed with the Continuous Munitions Analysis (CMA) and Weapons Capability Gap Analysis (WGCA) processes. Continued to conduct lethality analysis to support the development, testing, and evaluation of legacy and future weapon concepts. Work included physics, engineering, engagement/mission level MS&A and efforts to characterize complex systems amd provide independent analysis in multiple mission areas. Established new M&S capabilities.				
FY 2027 Plans: Progress advanced development of CMA and WCGA processes. Perform analysis for directorate wide portfolio and evaluate future concepts and their relationship to capability gaps. Provide lethality assessments for CMA to enhance weapon performance analysis. Review and update M&S techniques and capabilities. Provide M&S approach to augment and automate development and visualizations of road maps. Work includes physics, engineering, engagement/mission level MS&A and efforts to characterize complex systems.				
FY 2026 to FY 2027 Increase/Decrease Statement: Decrease from FY2026 to FY2027 due to reduced efforts in Modeling Development, Modeling Software License Renewals, and Digital Software.				
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		0.778	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
innovative technologies from Small Business Innovation Research (SBIR) contracts, studies, campaign analyses, experiments, and prototypes. Ensure alignment of science and technology (S&T) activities, acquisition efforts, and warfighter requirements for air-delivered munitions with Air Force, government, and industry stakeholders to enable technology transitions. FY 2026 Plans: No FY2026 funding FY 2027 Plans: No FY2027 funding FY 2026 to FY 2027 Increase/Decrease Statement: N/A				
Accomplishments/Planned Programs Subtotals		8.290	52.398	35.142
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.069	Apr 2025	11.685	Jan 2026	11.678	Jan 2027	-		11.678	Continuing	Continuing	-
Future Weapons Open System Architecture	Various	Various : Various	-	0.117	Nov 2024	22.797	Jan 2026	12.560	Jan 2027	-		12.560	Continuing	Continuing	-
Subtotal			-	4.186		34.482		24.238		-		24.238	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.034	Apr 2025	6.135	Jan 2026	1.107	Jan 2027	-		1.107	Continuing	Continuing	-
Modeling & Simulation Licenses & Support	C/Various	AFLCMC/EB : Eglin AFB, FL	-	0.243	May 2025	3.500	Jan 2026	0.500	Jan 2027	-		0.500	Continuing	Continuing	-
Direct Cite Authority Civilian Pay	Allot	AFLCMC/EBZ : Eglin AFB, FL	-	0.155	Oct 2024	0.162	Oct 2025	0.142	Oct 2026	-		0.142	Continuing	Continuing	-
Subtotal			-	2.432		9.797		1.749		-		1.749	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.025	Apr 2025	0.100	Jan 2026	0.175	Jan 2027	-		0.175	Continuing	Continuing	-
Subtotal			-	0.025		0.100		0.175		-		0.175	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.647	Oct 2024	8.019	Oct 2025	8.980	Oct 2026	-		8.980	Continuing	Continuing	-
Subtotal			-	1.647		8.019		8.980		-		8.980	Continuing	Continuing	N/A
Remarks Includes A&AS contract, IT requirements, travel, and office supplies.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	8.290		52.398		35.142		-		35.142	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0604200F / Future Advanced Weapon A nalysis & Programs					653133 / Armament Subsystems			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Strategy Development																												
Air Superiority, Global Precision Attack, and Base Defense Requirements Analyses																												
Future Weapons Open System Architecture																												
Trade Space Analysis Framework																												
Common Enterprise Solutions																												
Technology and Capability Roadmaps																												
Warfighter Analytics																												
Weapon Subsystem Prototype Demonstrations																												
Subsystem Prototype Development Activities																												
Capability Demonstrations																												
Modeling, Simulation, and Analysis																												
Lethality, GNC & Survivability Modeling, Simulation and Analysis																												
Analysis Database Repository																												
Model-Based Systems Engineering Foundation																												
Weapon Open System Architecture Built-In																												
Industry Connectivity																												
Futures Workshops, Concepts Studies																												
Threat Day Events, Innovation Days																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2025	4	2031
Future Weapons Open System Architecture	2	2025	4	2031
Trade Space Analysis Framework	2	2025	4	2031
Common Enterprise Solutions	2	2025	4	2031
Technology and Capability Roadmaps	2	2025	4	2031
Warfighter Analytics				
Weapon Subsystem Prototype Demonstrations	2	2025	4	2031
Subsystem Prototype Development Activities	2	2025	4	2031
Capability Demonstrations	2	2025	4	2031
Modeling, Simulation, and Analysis				
Lethality, GNC & Survivability Modeling, Simulation and Analysis	2	2025	4	2031
Analysis Database Repository	2	2025	4	2031
Model-Based Systems Engineering Foundation	2	2025	4	2031
Weapon Open System Architecture Built-In	2	2025	4	2031
Industry Connectivity				
Futures Workshops, Concepts Studies	2	2025	4	2030
Threat Day Events, Innovation Days	2	2025	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	224.017	124.199	710.780	0.000	710.780	471.574	425.502	303.872	315.765	0.000	2,575.709
651030: GPS Receiver Development	0.000	224.017	124.199	710.780	0.000	710.780	471.574	425.502	303.872	315.765	0.000	2,575.709
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604201F, project 651030, MGUE Inc 1 System/Platform Integration and Performance Certification, is a new start.
This program, BA 5, PE 0604201F, project 651030, MGUE Inc 2 Miniature Serial Interface (MSI) Receiver Card Rapid Prototyping, is a new start.
This program, BA 5, PE 0604201F, project 651030, MGUE Inc 2 Handheld (HH), is a new start.
This program, BA 5, PE 0604201F, project 651030, MGUE Inc 2 Aviation/Maritime Receiver Card, is a new start.

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.

GPS Receiver Development 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. 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.

Beginning in FY 2027, GPS Receiver Development project will include MGUE Inc 1 and Inc 2 efforts.

MGUE Inc 1 program leverages technology to the maximum extent while addressing the production of M-Code integrated circuits far into the future. MGUE Inc 1 efforts encompass TECHEVAL and Follow-on Operational Test & Evaluation (FOT&E) test events for the Maritime Domain lead platform and expansion of Military-Code (M-Code) receiver technology into additional applications (precision guided munitions) and develop a Joint Modernized Handheld (JMHH) device and Aviation/Maritime receiver to meet Service requirements and address obsolescence.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604201F I PNT Resiliency, Mods, and Improvements				
MGUE Inc 2 will be accomplished in four stages: 1) Risk Reduction Activities, 2) Miniature Serial Interface (MSI) Receiver Card Middle Tier Acquisition (MTA) rapid prototyping followed by 3) Software Acquisition Pathway (SWP) and 4) Joint Modernized GPS HH Receiver Middle Tier Acquisition (MTA) rapid prototyping effort.						
The total cost of the Positioning, Navigation, and Timing Software Defined User Equipment (PNT SDUE) Rapid Prototyping Middle Tier of Acquisition (RP MTA) effort is \$551.300 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 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.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		214.900	125.663	0.000	0.000	0.000
Current President's Budget		224.017	124.199	710.780	0.000	710.780
Total Adjustments		9.117	-1.464	710.780	0.000	710.780
• 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		14.999	0.000			
• SBIR/STTR Transfer		-5.882	-1.464			
• Other Adjustments		0.000	0.000	710.780	0.000	710.780
Change Summary Explanation						
FY 2025 budget request increased by \$9.117 million due to \$14.999 million increase for Air Force internal reprogramming for GPS receiver development and \$5.882 million decrease for Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
FY 2026 budget request decreased by \$1.464 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Embedded GPS/INS - Modernized (EGI-M) Description: Embedded Global Positioning System/Inertial Navigation System - Modernized (EGI-M) is a combined GPS/INS 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 DoW 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. FY 2026 Plans: Complete Spiral 1 Formal Qualification Testing. Continue Spiral 2 Software Development. Begin LN-351 PRU system deliveries. FY 2027 Plans: Complete LN-351 Delta Hardware Qualification Testing. Complete Spiral 2 Formal Qualification Testing. Continue LN-351 PRU system deliveries. Begin LN-300 PRU system builds. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to test/integration of long-term M-code solution for additional platform(s).		75.227	31.700	68.300
Title: Miniaturized Airborne GPS Receiver 2000 - Modernization (MAGR-2K-M) Description: Miniaturized Airborne GPS Receiver 2000 - Modernization (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 2026 Plans: 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 2027 Plans:		17.500	8.600	27.700

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Develop an additional software configuration required to support the final MGUE Inc 1 design. Continue Integration/testing for transition into production (Milestone C decision anticipated 4th Qtr FY 2026).				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to additional software configuration development.				
Title: Resilient EGI (R-EGI) Description: Resilient Embedded Global Positioning System/Inertial Navigation System (R-EGI) program 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 2026 Plans: Continue testing and integration of F-15 Medium Form Factor (MFF) PRUs to prepare for production decision and subsequent fielding. Continue validation of software development iso a reproducible, government-owned Level 3 Technical Data Package and execute Functional Configuration Audit/Physical Configuration Audits to enable future competitive procurement. FY 2027 Plans: Resume development and testing of the F-16 Large Form Factor (LFF) and testing and integration of the B-52 MFF. Begin development and testing for AC/MC-130J, C-130J, C-17, KC-135, and SAOC platforms. Continue validation of software development iso a reproducible, government-owned Level 3 Technical Data Package and execute Functional Configuration Audit/Physical Configuration Audits to enable future competitive procurement. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to additional form factor (LFF) development and additional platforms (F-16, B-52, AC/MC-130J, C-130J, C-17, KC-135, and SAOC).		107.047	46.000	168.300
Title: Positioning Navigation Timing Software Defined User Equipment (PNT SDUE) Description: Positioning Navigation Timing Software Defined User Equipment (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		15.139	17.721	166.700

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
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 Resilient EGI (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. The USAFs preferred Resilient PNT capability consists of a trinity which includes R-EGI, SDAE, and SSDR.				
FY 2026 Plans: Continue Digital Engineering Other Transaction Authority (OTA) and Design Agent OTA efforts. Building and evaluating physical SDAE prototypes and developing a digital twin model for the SDAE.				
FY 2027 Plans: Continue Digital Engineering OTA and Design Agent OTA efforts. Building and evaluating physical SDAE prototypes and developing digital twin models for both the SDAE and SSDR.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to additional testing and development of SDAE prototypes and digital twin models for both the SDAE and SSDR. Additionally, the large increase in funds corresponds to SDUE's development of fieldable prototypes within the 5-year Rapid Prototyping window. SDUE is currently in year 3 of a 5-year MTA.				
Title: MGUE Inc 1 System/Platform Integration and Performance Certification Description: Integration of MGUE Inc 1 receiver form factors into lead platforms in support of developmental and operational (or field) test events. Conduct technical and operational modernization impact analysis for MGUE lead platform integration.		0.000	0.000	1.000
FY 2026 Plans: N/A				
FY 2027 Plans: Complete Technical Evaluation and Follow-On Operational Test & Evaluation (FOT&E) test events for GPNTS integrated with MGUE on board an Arleigh-Burke Class Destroyer (DDG).				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up of testing activities.				
Title: MGUE Inc 2 Miniature Serial Interface (MSI) Receiver Card Rapid Prototyping Description: The MGUE Inc 2 program will develop M-Code receiver technology for additional applications (space receivers, precision guided munitions, and handheld receivers) to meet Service requirements. MGUE Inc 2 MSI Receiver Card Rapid		0.000	0.000	101.891

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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 0604201F / <i>PNT Resiliency, Mods, and Improvements</i>		
C. Accomplishments/Planned Programs (\$ in Millions) prototyping builds on the Application-Specific Integrated Circuit (ASIC) post-Preliminary Design Review (PDR) progress and will develop, integrate, produce, and test M-Code capable, low size and power GPS MSI form factor to include a Next Gen ASIC. The MSI receiver card is to meet the needs of low size, weight and power (SWaP) ground-embedded users. However, the Next Gen ASIC must meet the needs of the MSI form factor and be backwards compatible with Inc 1 performance requirements as a potential functional replacement due to Inc 1 ASIC obsolescence. Additionally, Advanced Technology/Pre-Tech includes efforts to mature technology for future GPS receivers identified in the MGUE CDDs. These efforts aim to find innovative solutions to increase resiliency in GPS performance and improve on size, weight, power, and cost (SWAP/C) of military receivers. FY 2026 Plans: N/A FY 2027 Plans: Contracting activities for Software Pathway (SWP) development contract option. Additional plans include but are not limited to special studies on developing integrated Assured Positioning, Navigation and Timing System and Multi-Global Navigation Satellite System (M-GNSS) receivers, complete security certification, formal MSI Functional Qualification Test, and Functional Configuration Audit/Physical Configuration Audit, technical analysis, experimentation, risk reduction and prototyping activities, MGUE Test Program PA, Cooperative RDT&E PA, added Satellite Signal Usage for Resilient Equipment (ASSURE) PA, and development and testing of Military Underwater Navigation System-M-Code (MUNS-M). FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to initiation of contracting activities for Software Pathway (SWP) development contract.		FY 2025	FY 2026	FY 2027
Title: MGUE Inc 2 Handheld (HH) Description: The MGUE Inc 2 Handheld (HH) effort will develop a joint common modernized HH receiver that will provide M-code, anti-spoof, and anti-jam capabilities, with significant improvements in size, weight, and power. The goal of the MGUE Inc 2 HH risk reduction activities is to reduce development risk for the MGUE Inc 2 HH receiver through feedback from the rapid prototyping process and multiple joint service demonstration events. FY 2026 Plans: N/A FY 2027 Plans:		0.000	0.000	17.859

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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 0604201F / <i>PNT Resiliency, Mods, and Improvements</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Conduct key Miniature Serial Interface (MSI) technology integration and test activities, prototype hardware, software, and critical component maturation, ultimately driving toward initial production readiness. Activities may include, but are not limited to program office support, studies, technical analysis, experimentation, risk reduction, and prototyping.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to initial start up of key Miniature Serial Interface (MSI) technology integration and testing activities.				
Title: MGUE Inc 2 Aviation/Maritime Receiver Card Description: The MGUE Inc 2 Aviation/Maritime effort will develop an Aviation/Maritime receiver card that will provide M-code, anti-spoof, and anti-jam capabilities addressing Inc 1 ASIC obsolescence. The MGUE Inc 2 Aviation/Maritime effort will consist of a risk reduction study with a follow-on Middle Tier of Acquisitions (MTA). The risk reduction study will primarily aid in establishing requirements, defining an overarching funding profile, and evaluating the competitive marketplace in support of the MTA which will deliver the receiver prototype. This prototype builds upon MGUE Inc 2 MSI Receiver Card Rapid Prototyping Major Thrust ASIC efforts to address Aviation/Maritime capabilities.		0.000	0.000	89.994
FY 2026 Plans: N/A FY 2027 Plans: Support risk reduction study activities exploring application of Military-Code (M-Code) receiver and RMP capability into Aviation/Maritime applications. Contracting activities to support Release Request for Prototype Proposal, and contract award to develop, prototype, integrate and test a Maritime and Aviation Receiver Card (MAVRC) form factor for use in aviation and maritime applications.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to additional support office activities for risk reduction study.				
Title: PNT Resiliency, Mods, and Improvements (RMI) Description: Conduct studies and analysis of PNT systems and requirements, develop and evaluate alternative courses of action to identify, plan and conduct PNT technology transition projects, conduct prototype and acquisition program planning, and provide recommended solutions to Department of War and Air Force decision makers relative to navigation warfare threat evolution and technology emergence. Efforts include but not limited to, developing an associated antenna electronics capability to capture other than GPS signals like Multi-Global Navigation Satellite Systems, Navigation Technology Satellite-III and other commercial solutions, operationalizing Regional Military Protection (RMP) capabilities, Multi-source PNT Radios (MPR), and alternative PNT over hybrid satellite communications (HST).		9.104	20.178	69.036

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force									Date: April 2026		
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 2025	FY 2026	FY 2027
FY 2026 Plans: Continue studies and advanced analysis of PNT systems and requirements. Continuation of development and testing activities for interface design requirements and evaluation of existing systems and risk with Alt-PNT technologies interface with DoW PNT systems.											
FY 2027 Plans: Continuation of studies and advanced analysis of resilient PNT systems and requirements. Continuation of testing and development to minimize risks syncing Alt-PNT technologies with DoW PNT systems.											
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to additional resilient and alternate PNT capabilities activities.											
Accomplishments/Planned Programs Subtotals									224.017	124.199	710.780
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• APAF 05 SDUE00: Software Defined User Equipment	0.000	0.000	25.847	-	25.847	0.000	0.000	0.000	0.000	0.000	25.847
• APAF 07 000075: Other Production Charges	0.000	0.000	0.828	-	0.828	0.845	0.861	0.878	0.895	0.000	4.307
Remarks											
Per FY 2024 National Defense Authorization Act Section 1685(b), the Under Secretary of War 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 (ACAT) 1D program, and the authority to manage such program may not be delegated.											
Per "M-Code Aviation Receiver Enterprise Acquisition Decision Memorandum", dated 25 Nov 2024 and signed by Mr. William A. LaPlante, Under Secretary of War for Acquisition and Sustainment, Military GPS User Equipment Increment 1 (MGUE Inc 1) program Space Force efforts and funding will end in FY 2027. In FY 2027, the Department of the Air Force will develop and fund MGUE Inc 2. This memorandum also established the designation of a Joint Program Office that will support the Joint Services, with the Air Force acting as the lead Service for the M-Code Aviation Receiver Enterprise Acquisition.											
Per "Service Transfer of MGUE Increment 2 from USSF to USAF" memorandum, dated 09 Apr 2025 and signed by Lt General Dale R. White, USAF, Military Deputy, Office of the Assistant Secretary of the Air Force (Acquisition, Technology, and Logistics) and Maj General Stephen G. Purdy, USSF, Acting Assistant Secretary of the Air Force for Space Acquisition and Integration, all Military GPS User Equipment Increment 2 (MGUE Inc 2) program efforts will transfer from Space Force to Air Force.											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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>
E. Acquisition Strategy Beginning in FY 2027, GPS Receiver Development includes projects Military Global Positioning System User Equipment (MGUE) Increment 1 and Increment 2. MGUE Inc 1 program is responsible for the development of standard modernized receiver form factors for the lead platforms. The program received direction in February 2014, from the Under Secretary of War for Acquisition and Sustainment to execute a new acquisition strategy, accelerating the program to provide test units faster to facilitate military end users. The MGUE program received a Milestone B decision in January 2017. MGUE Inc 1 has completed the APB Milestones for PEO Certification of the MGUE Inc 1 Aviation/Maritime card for the Maritime Domain lead platform, the Arleigh-Burke Class Destroyer (DDG). The remaining program exit criteria for the MGUE Inc 1 program is tied to the successful completion of operational testing for the Maritime Domain lead platform. The Maritime Domain lead platform's developmental test events, including Independent Verification & Validation (IV&V) testing and AEGIS Integration Event (AIE) for GPNTS combat certification are scheduled to complete in 2026. The JROC approved the MGUE Inc 2 CDD on 6 April 2018. The Air Force Service Acquisition Executive approved the MGUE Inc 2 Acquisition Strategy to include designation of two MTA Rapid Prototype efforts: 1) MSI Receiver Cards to include Next-Generation (Next Gen) Application Specific Integrated Circuit (ASIC) and 2) Joint, Modernized Handheld Receiver. The SAE has approved the transition to a SWP following completion of MSI MTA in 2025 to finish MSI development. Additionally, the MGUE Inc 2 program received direction for the study of an MGUE Inc 2 Aviation/Maritime receiver card (MAVRC) program and development of an acquisition strategy based on ASIC obsolescence for Inc 1. Acquisition strategy is 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. 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MAGR-2K-M	SS/CPFF	Raytheon : El Segundo, CA	-	18.248	Oct 2024	8.600	Oct 2025	24.650	Oct 2026	-		24.650	Continuing	Continuing	-
EGI-M	SS/CPFF	Northrop Grumman : Woodland Hills, CA	-	70.153	Oct 2024	27.700	Oct 2025	58.700	Oct 2026	-		58.700	Continuing	Continuing	-
PNT RMI	Various	Various : TBD	-	2.000	Mar 2025	2.000	Mar 2026	62.356	Mar 2027	-		62.356	Continuing	Continuing	-
R-EGI	C/CPFF	IS4S : Warner Robins, GA	-	94.145	Jan 2025	45.858	Oct 2025	149.190	Oct 2026	-		149.190	Continuing	Continuing	-
PNT SDUE	C/CPAF	IS4S : Warner Robins, GA	-	3.748	Jan 2025	17.500	Jan 2026	146.940	Oct 2026	-		146.940	Continuing	Continuing	-
MGUE Inc 2 MSI Receiver Card Rapid Prototyping	Various	Various : Various	-	-		-		24.060	Dec 2026	-		24.060	Continuing	Continuing	-
MGUE Inc 2 Technology Development	Various	Various : Various	-	-		-		43.761	Nov 2026	-		43.761	Continuing	Continuing	-
MGUE Inc 2 Handheld	C/FFP	Technology Adv. Group : Ashburn, VA	-	-		-		9.156	Oct 2026	-		9.156	Continuing	Continuing	-
MGUE Inc 2 Aviation/ Maritime Receiver Card	TBD	TBD : TBD	-	-		-		77.599	Mar 2027	-		77.599	Continuing	Continuing	-
MGUE Inc 2 Technical Mission Analysis	Various	Aerospace/MITRE : El Segundo, CA	-	-		-		9.905	Oct 2026	-		9.905	Continuing	Continuing	-
MGUE Inc 2 Enterprise SE&I	C/CPAF	SAIC : El Segundo, CA	-	-		-		5.276	Jan 2027	-		5.276	Continuing	Continuing	-
MGUE Inc 1/Inc 2 SBIR/ STTR	Allot	TBD : TBD	-	-		-		7.382	Mar 2027	-		7.382	Continuing	Continuing	-
Subtotal			-	188.294		101.658		618.975		-		618.975	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MAR JPO FFRDC	Various	MITRE Corp. : Bedford, MA	-	4.643	Feb 2025	4.872	Feb 2026	10.000	Feb 2027	-		10.000	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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			
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MGUE Inc 2 FFRDC	RO	Aerospace/MITRE : El Segundo, CA	-	-		-		12.737	Nov 2026	-		12.737	Continuing	Continuing	-
DCA Civ Pay	Allot	Allotment : Wright Patterson AFB, OH	-	6.867	Oct 2024	8.536	Oct 2025	15.000	Oct 2026	-		15.000	Continuing	Continuing	-
Subtotal			-	11.510		13.408		37.737		-		37.737	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MAGR-2K-M Test and Evaluation	PO	746th Test Squadron : TBD	-	0.000	Jan 2025	0.500	Feb 2026	0.000	Oct 2026	-		0.000	Continuing	Continuing	-
EGI-M Test and Evaluation	PO	746th Test Squadron : TBD	-	0.750	Feb 2025	0.000	Mar 2026	2.100	Mar 2027	-		2.100	Continuing	Continuing	-
R-EGI Test and Evaluation	PO	746th Test Squadron : TBD	-	0.300	Dec 2024	0.142	Dec 2025	0.600	Dec 2026	-		0.600	Continuing	Continuing	-
PNT SDUE Test and Evaluation	PO	Various : TBD	-	0.676	Mar 2025	0.200	Mar 2026	1.400	Dec 2026	-		1.400	Continuing	Continuing	-
MGUE Inc 2 Test and Evaluation	Various	Various : TBD	-	-		-		6.069	Jan 2027	-		6.069	Continuing	Continuing	-
Subtotal			-	1.726		0.842		10.169		-		10.169	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/OGC	C/Various	SERCO/TBD : Robins AFB, GA	-	22.487	Mar 2025	8.291	Feb 2026	30.100	Feb 2027	-		30.100	Continuing	Continuing	-
MGUE Inc 2 A&AS	Various	Various : Various	-	-		-		13.536	Nov 2026	-		13.536	Continuing	Continuing	-
MGUE Inc 1 and Inc 2 Other Support	Various	Various : El Segundo, CA	-	-		-		0.263	Oct 2026	-		0.263	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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					
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			-	22.487		8.291		43.899		-		43.899	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	224.017		124.199		710.780		-		710.780	Continuing	Continuing	N/A
Remarks															
FFRDC funding increased in FY 2025 and continues through FY 2027 to complete risk reduction efforts that seek to accelerate foundational work for the PNT Software Defined User Equipment (PNT 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.															
FINANCIAL PERFORMANCE: MGUE Inc 1 and MGUE Inc 2 efforts are evaluated against traditional Research and Development (R&D) program expenditure benchmarks. Unlike many traditional R&D programs, however, the MGUE Inc 1 and MGUE Inc 2 development contracts are Fixed Price Incentive Firm Target (FPIF) contracts with progress payments. Ten percent (10%) 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 execution health.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force

Date: April 2026

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

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
EGI-M Integration & Test																												
MAGR-2K-M EMD																												
MAGR-2K-M Integration & Test																												
NAVWAR																												
R-EGI MFF & LFF Development																												
R-EGI New Platform Integration Studies/ Designs																												
R-EGI Integration & Test																												
PNT SDUE SDAE Prototype Development																												
PNT SDUE SDDR Prototype Development																												
MGUE Inc 1																												
MGUE Inc 1 Lead Platform Integration and Test																												
MGUE Inc 2																												
MGUE Inc 2 MSI Receiver Card w/ Next Gen ASIC Software Development																												
ADV/Pre-Tech MUNS-M System Enhancements & Tests																												
ADV/Pre-Tech MGNSS Receiver Design Integration																												
MoPD Vendor Integration Support																												
MGUE Inc 2 Modernized Handheld Receiver																												
MGUE Inc 2 Handheld Objective C Extension																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																				Date: April 2026																	
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																			
										FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
										1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
MGUE Inc 2: Handheld Objective C Extension 2																																					
MGUE Inc 2 Aviation/Maritime Receiver Obsolescence Study																																					
MGUE Inc 2 Aviation/Maritime Receiver Card Development																																					
PNT RMI																																					
RMI and Alt PNT efforts																																					

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	1	2025	2	2028
EGI-M Integration & Test	1	2025	2	2028
MAGR-2K-M EMD	1	2025	2	2026
MAGR-2K-M Integration & Test	1	2025	4	2026
NAVWAR				
R-EGI MFF & LFF Development	1	2025	3	2027
R-EGI New Platform Integration Studies/Designs	1	2025	4	2031
R-EGI Integration & Test	2	2025	3	2027
PNT SDUE SDAE Prototype Development	1	2025	4	2027
PNT SDUE SDDR Prototype Development	1	2025	3	2030
MGUE Inc 1				
MGUE Inc 1 Lead Platform Integration and Test	1	2027	4	2027
MGUE Inc 2				
MGUE Inc 2 MSI Receiver Card w/ Next Gen ASIC Software Development	1	2027	4	2028
ADV/Pre-Tech MUNS-M System Enhancements & Tests	1	2027	4	2027
ADV/Pre-Tech MGNSS Receiver Design Integration	1	2027	4	2028
MoPD Vendor Integration Support	1	2027	1	2028
MGUE Inc 2 Modernized Handheld Receiver	1	2027	3	2028
MGUE Inc 2 Handheld Objective C Extension	1	2027	4	2027
MGUE Inc 2: Handheld Objective C Extension 2	1	2028	3	2028
MGUE Inc 2 Aviation/Maritime Receiver Obsolescence Study	1	2027	2	2027

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
MGUE Inc 2 Aviation/Maritime Receiver Card Development	2	2027	4	2030
PNT RMI				
RMI and Alt PNT efforts	1	2027	4	2031

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 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	68.377	78.326	86.921	0.000	86.921	87.388	54.597	56.306	57.446	Continuing	Continuing
654236: Engineering Analysis	0.000	2.515	2.714	2.790	0.000	2.790	2.888	2.943	3.000	3.062	Continuing	Continuing
654807: Nuclear Weapon System Technology and Integration	0.000	63.861	73.451	77.279	0.000	77.279	76.363	49.308	50.915	51.944	Continuing	Continuing
655708: Nuclear Weapons Support	0.000	2.001	2.161	6.852	0.000	6.852	8.137	2.346	2.391	2.440	Continuing	Continuing

Note

This program, BA 5, PE 0604222F, project 654807, Advanced Concepts, is a new start.

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 project 654807 in this program element.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026	
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			
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	70.823	79.312	0.000	0.000	0.000
Current President's Budget	68.377	78.326	86.921	0.000	86.921
Total Adjustments	-2.446	-0.986	86.921	0.000	86.921
• 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	-2.446	-0.986			
• Other Adjustments	0.000	0.000	86.921	0.000	86.921
Change Summary Explanation					
FY2025 adjustment of -\$2.446 million for Small Business Innovative Research (SBIR)					
FY2026 adjustment of -\$0.986 million for SBIR					
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
654236: Engineering Analysis	0.000	2.515	2.714	2.790	0.000	2.790	2.888	2.943	3.000	3.062	Continuing	Continuing
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 included all necessary 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, and 0605898F.

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

	FY 2025	FY 2026	FY 2027
Title: Engineering Analysis	2.515	2.714	2.790
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 2026 Plans: • Complete: (1) Engineering 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.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
• 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. <i>FY 2027 Plans:</i> FY27 funding will be used for digital engineering and cybersecurity efforts for nuclear weapons support: • 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. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Increase due to inflation			
Accomplishments/Planned Programs Subtotals		2.515	2.714
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			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604222F / Nuclear Weapons Support	Project (Number/Name) 654236 / Engineering Analysis
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 2027 Air Force **Date:** April 2026

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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.900	Jun 2025	1.572	Oct 2025	1.500	Oct 2026	-		1.500	Continuing	Continuing	-
Nuclear Enterprise Architecture	C/TBD	TBD : Kirtland AFB, NM	-	0.400	Aug 2025	0.600	Jun 2026	0.590	Dec 2026	-		0.590	Continuing	Continuing	-
Subtotal			-	1.300		2.172		2.090		-		2.090	Continuing	Continuing	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.900	Mar 2025	0.146	Feb 2026	0.250	Nov 2026	-		0.250	Continuing	Continuing	-
Digital Engineering & Business Process Automation	Various	Various : Kirtland AFB, NM	-	0.100	Apr 2025	0.096	Mar 2026	0.250	Dec 2026	-		0.250	Continuing	Continuing	-
Model Based Systems Engineering Assessments	Various	Various : Kirtland AFB, NM	-	0.050	Apr 2025	0.100	Jun 2026	-		-		-	Continuing	Continuing	-
Cyber Security Penetration Testing	C/FFP	Various : Kirtland AFB, NM	-	0.015	Apr 2025	0.050	May 2026	0.000		-		0.000	0.000	0.065	-
Subtotal			-	1.065		0.392		0.500		-		0.500	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force **Date:** April 2026

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>

Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.015	Jan 2025	0.020	Oct 2025	0.200	Dec 2026	-		0.200	Continuing	Continuing	-
Subtotal			-	0.015		0.020		0.200		-		0.200	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.035	Apr 2025	0.030	Mar 2026	0.000		-		0.000	Continuing	Continuing	-
Program Management Support	Various	Various : Kirtland AFB, NM	-	0.100	Apr 2025	0.100	Oct 2025	0.000		-		0.000	Continuing	Continuing	-
Subtotal			-	0.135		0.130		0.000		-		0.000	Continuing	Continuing	N/A

			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.515		2.714		2.790		-		2.790	Continuing	Continuing	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 2027 Air Force															Date: April 2026				
Appropriation/Budget Activity										R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 5										PE 0604222F / Nuclear Weapons Support					654236 / Engineering Analysis				

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Nuclear Enterprise Architecture																												
Digital Engineering and MBSE																												
Mission Support																												
Project Management Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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				
Nuclear Enterprise Architecture	3	2025	4	2031
Digital Engineering and MBSE	3	2025	4	2031
Mission Support	3	2025	4	2031
Project Management Support	3	2025	4	2031

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 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
654807: Nuclear Weapon System Technology and Integration	0.000	63.861	73.451	77.279	0.000	77.279	76.363	49.308	50.915	51.944	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604222F, project 654807, Advanced Concepts, is a new start.

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 operators 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, characterizing the inherent hardness/survivability of Department of Air Force conventional and nuclear weapon systems in adversarial threat environments, 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 DoW-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, DoW Nuclear Weapons Surety Program and DoDM 3150.02, DoW 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 OSW, 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 DOW 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 DoW-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 War stakeholders.

This program element included all necessary 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, and 0605898F.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Title: Weapons Effects		6.980	15.130	17.883
Description: Ensures survivable and effective AF systems through evaluation, test, and analyses of nuclear environments and their impact to Department of AF (DAF) platforms. Develops and maintains the sole DAF analytical capability to assess nuclear effects on conventional and nuclear systems, their inherent hardness/survivability and mission degradation within a nuclear environment (blast, gust, overpressure, radiation, electromagnetic pulse (EMP), thermal, flash-blindness). These efforts shape and support requirements for new acquisitions, fielded systems, as well as providing critical expertise for exercises and operational planning.				
FY 2026 Plans:				
• Development, modernization, verification, and validation of M&S tools (to include integration with other DoW M&S tools).				
• Develop rigorous methods and tools for testing and predictive response to nuclear effects as they relate to the expected operational environments.				
• 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.				
• 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 2027 Plans:				
• Continue development, modernization, verification, and validation of M&S tools (to include integration with other DoW 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 survivability/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, test plans, instrumentation plans, identification of possible mitigation strategies, coordination of test execution, and assessing resource requirements, shortfalls and prioritization				

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
• Continue to provide hardness/survivability analysis and subject matter expertise supporting CNI planning, strategies, exercises, and wargaming. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding increase is due to expanded testing requirements and activities.			
<i>Title:</i> Air Force Nuclear Red Team (AFNRT) <i>Description:</i> The AFNRT independently evaluates susceptibilities and 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, modeling & simulation (M&S), verification/validation and nuclear 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, requirements and new acquisitions. <i>FY 2026 Plans:</i> • Assess strategic system capabilities/vulnerabilities related to air-delivered, ground-based nuclear weapon systems, and NC3. • Evaluate and analyze current and future threats that include, but are not limited to, kinetic, electronic warfare, cyber, human factors and supply chain exploitation. Assessments will include focused intelligence analyses, nuclear weapon system fragility analyses, vulnerability modes and effects analyses, nuclear hardness assessments, and M&S. 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. • Conduct combined nuclear effects and verification testing of susceptibilities and vulnerabilities of strategic systems. The empirical data generated from testing will be used to validate the development of requirements, future system concepts, CONOPS, and TTPs as well as support the CNI Implementation Plan and path forward. <i>FY 2027 Plans:</i> • Continue to improve assessments of strategic system capabilities/vulnerabilities related to air-delivered, 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. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i>		16.433	18.110
			13.456

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
Decrease in funding due to re-prioritization decisions within nuclear modernization initiative.					
Title: Nuclear Certification Management			40.448	40.211	43.940
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 (DoW and AF) nuclear enterprise-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 DoW 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, DoW, 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 2026 Plans: • 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 DoW surety standards and ensure DoW system compatibility with DOE systems, as well as proper requirements definition and allocation. • 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. • 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, B61-13, and seven Weapon Generation Facilities.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
• Support DoW-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 OSW(NM) update of DODD 3150.02. FY 2027 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 DoW surety standards and ensure DoW system compatibility with DOE systems, as well as proper requirements definition and allocation. • Continue investment 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 improving nuclear certification-specific data analysis capabilities (tools) to match growing weapon system complexity. • Continue 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. • Support DoW-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 Department of War updates to DODD 3150.02. FY 2026 to FY 2027 Increase/Decrease Statement: Increase in funding due to a ramp of nuclear modernization initiatives being prioritized over other efforts					
Title: Advanced Concepts Description: Advanced Concepts development provides assessments and system concepts to address capability gaps and emerging warfighting needs. The results are applied in the requirements development phase of new systems acquisitions, as well as technical demonstrations. Efforts are centered on future threats, with a focus on ensuring system survivability and effectiveness in operational threat environments. Analysis and reports guide science and technology community efforts and are coordinated with NNSA/DOE to enhance synergy within joint DoW-DOE Nuclear Weapons Lifecycle activities. Supports Analysis of Alternatives for MAJCOMs and provides significant cost avoidance and schedule savings through early technology evaluation. FY 2026 Plans:			0.000	0.000	2.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
N/A FY 2027 Plans: New Major Thrust to provide assessments to address capability gaps with a focus on future emerging threats; results inform requirements, acquisitions, and technical demonstrations. FY 2026 to FY 2027 Increase/Decrease Statement: Funding begins FY27			
Accomplishments/Planned Programs Subtotals		63.861	73.451
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 improved tools and mentoring the next generation of AF nuclear experts. 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Booze Allen Hamilton : Kirtland AFB, NM	-	12.849	Dec 2024	12.317	Dec 2025	10.392	Dec 2026	-		10.392	Continuing	Continuing	-
NCAT Cloud Development	C/CPAF	Booze Allen Hamilton : Kirtland AFB, NM	-	2.535	Dec 2024	4.675	Dec 2025	2.761	Dec 2026	-		2.761	Continuing	Continuing	-
Subtotal			-	15.384		16.992		13.153		-		13.153	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.200	Dec 2024	5.600	Dec 2025	3.000	Dec 2026	-		3.000	Continuing	Continuing	-
FFRDC Engineering & Technical Support	MIPR	Aerospace Corp (SSC) : El Segundo, CA	-	3.978	Nov 2024	5.158	Nov 2025	5.462	Nov 2026	-		5.462	Continuing	Continuing	-
SAP & Collateral Support & Analysis	MIPR	Various : Kirtland AFB, NM	-	0.728	Jan 2025	1.330	Jan 2026	1.612	Jan 2027	-		1.612	Continuing	Continuing	-
Research and Analysis Support	C/CPFF	Various : Kirtland AFB, NM	-	3.905	Dec 2024	3.061	Dec 2025	3.100	Dec 2026	-		3.100	Continuing	Continuing	-
Nuclear Certification Engineering Support	C/CPFF	Booze Allen Hamilton : Kirtland AFB, NM	-	11.471	Dec 2024	8.969	Dec 2025	10.309	Dec 2026	-		10.309	Continuing	Continuing	-
Equipment	Various	Various : Kirtland AFB, NM	-	0.500	Mar 2025	0.500	Mar 2026	0.500	Mar 2027	-		0.500	Continuing	Continuing	-
Threat Analysis and Simulation Support	MIPR	MSIC : Various	-	0.750	Feb 2025	0.500	Feb 2026	1.000	Feb 2027	-		1.000	Continuing	Continuing	-
Nuclear Surety and Hazards of Electromagnetic Radiation to Ordnance (HERO)	C/CPFF	TBD : Kirtland AFB, NM	-	2.000	Jun 2025	2.497	Jun 2026	5.651	Jun 2027	-		5.651	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			-	27.532		27.615		30.634		-		30.634	Continuing	Continuing	N/A
Remarks															
Updated title from "Security Support" to "SAP & Collateral Support & Analysis". Increase in FY26+ due to change in contract and increase scope.															
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.750	Mar 2025	3.066	Mar 2026	4.100	Mar 2027	-		4.100	Continuing	Continuing	-
Weapons Effects Testing	MIPR	Various : Various	-	1.000	Dec 2024	8.500	Dec 2025	8.500	Dec 2026	-		8.500	Continuing	Continuing	-
AFNRT Assessments	Various	National Labs : Various	-	3.600	Dec 2024	4.634	Dec 2025	5.000	Dec 2026	-		5.000	Continuing	Continuing	-
Modeling, Simulation and Analysis	C/CPFF	Booze Allen Hamilton : Kirtland AFB, NM	-	0.600	Dec 2024	1.500	Dec 2025	1.650	Dec 2026	-		1.650	Continuing	Continuing	-
Capability Assessments	C/FP	CMU-SEI : Pittsburgh, PA	-	1.500	Nov 2024	1.000	Nov 2025	3.000	Nov 2026	-		3.000	Continuing	Continuing	-
AMAC Testing	C/CPAF	Booze Allen Hamilton : Kirtland AFB, NM	-	12.198	Dec 2024	8.765	Dec 2025	9.837	Dec 2026	-		9.837	Continuing	Continuing	-
Subtotal			-	19.648		27.465		32.087		-		32.087	Continuing	Continuing	N/A
Remarks															
Fluctuations in funding level for Weapons Effects Testing and AFNRT Assessments between FY25 and FY27 corresponds to a increase in funding for AFNRT and Weapons Effects.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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>			
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.203	Feb 2025	0.211	Feb 2026	0.219	Feb 2027	-		0.219	Continuing	Continuing	-
NWST&I Program Support Cost (PSC)	Various	Various : Kirtland AFB, NM	-	1.094	Nov 2024	1.168	Nov 2025	1.186	Nov 2026	-		1.186	Continuing	Continuing	-
Subtotal			-	1.297		1.379		1.405		-		1.405	Continuing	Continuing	N/A
Remarks PSC includes travel, training, supply/equipment, freight, JWICS contractor support, and communications support (ARC & JWICS Phones).															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	63.861		73.451		77.279		-		77.279	Continuing	Continuing	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 2027 Air Force			Date: April 2026		
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>	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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>AF Nuclear Red Team</i>																												
Assessments																												
Evaluation																												
<i>Weapons Effects</i>																												
Weapons Effects Testing																												
Modeling, Simulation & Analysis																												
<i>Nuclear Certification</i>																												
Engineering Support																												
<i>Nuclear Assessment</i>																												
AMAC Testing																												
<i>Nuclear Development</i>																												
NCAT Cloud Development																												
Family of Testers																												
<i>Program Support</i>																												
Engineering																												
Security																												
Research and Analysis																												
Equipment																												
Program Support Cost (PSC)																												
<i>Nuclear Surety and Hazards of Electromagnetic Radiation to Ordnance (HERO)</i>																												
Vulnerability and Nuclear Weapon System Surety Assessments																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force

Date: April 2026

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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AF Nuclear Red Team				
Assessments	1	2025	4	2031
Evaluation	1	2025	4	2031
Weapons Effects				
Weapons Effects Testing	1	2025	4	2031
Modeling, Simulation & Analysis	1	2025	4	2031
Nuclear Certification				
Engineering Support	1	2025	4	2031
Nuclear Assessment				
AMAC Testing	1	2025	4	2031
Nuclear Development				
NCAT Cloud Development	1	2025	4	2027
Family of Testers	1	2025	3	2027
Program Support				
Engineering	1	2025	4	2031
Security	1	2025	4	2031
Research and Analysis	1	2025	4	2031
Equipment	1	2025	4	2031
Program Support Cost (PSC)	1	2025	4	2031
Nuclear Surety and Hazards of Electromagnetic Radiation to Ordnance (HERO)				
Vulnerability and Nuclear Weapon System Surety Assessments	3	2025	3	2031

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
655708: Nuclear Weapons Support	0.000	2.001	2.161	6.852	0.000	6.852	8.137	2.346	2.391	2.440	Continuing	Continuing
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 included all necessary 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, and 0605898F. In FY 2026 \$0 million was expended for civilian pay expenses in this program element, and in FY 2027 \$0 million is forecasted for civilian pay expenses in this program element.

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

	FY 2025	FY 2026	FY 2027
Title: Nuclear Enterprise Support Equipment	2.001	2.161	6.852
Description: Nuclear Enterprise Support Equipment Review and Design			
FY 2026 Plans:			
- 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.			
FY 2027 Plans:			
FY27 funds will be used to acquire nuclear support equipment.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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 2025	FY 2026	FY 2027
- 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 2026 to FY 2027 Increase/Decrease Statement:</i> Funding increased in FY 2027 due to increased requirements for nuclear certification efforts, cybersecurity, and electro-magnetic pulse certification.					
Accomplishments/Planned Programs Subtotals			2.001	2.161	6.852
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		0.496	Oct 2025	-		-		-	Continuing	Continuing	-
Aerial Stores Lift Truck (Large Class) (MHU-TSX)	RO	Square One Corp. : Jackson Hole, WY	-	0.000	Oct 2024	0.145	Oct 2025	-		-		-	Continuing	Continuing	-
Next-Generation Aerial Stores Lift Trucks (4K/7K)	RO	AFRL/MilTech : Bozeman, MT	-	1.890	Jun 2025	0.828	Jan 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	1.890		1.469		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.111	Mar 2025	0.692	Mar 2026	6.852	Mar 2027	-		6.852	Continuing	Continuing	-
Subtotal			-	0.111		0.692		6.852		-		6.852	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	2.001		2.161		6.852		-		6.852	Continuing	Continuing	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 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0604222F / Nuclear Weapons Support					655708 / Nuclear Weapons Support			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2025	4	2028
Electric Manually Operated Lift Truck (EMOLT)	1	2025	4	2027
MHU-TSX	1	2025	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 2027 Air Force **Date:** April 2026

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604270F I Electronic Warfare Development							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	13.648	18.971	260.233	0.000	260.233	155.609	160.414	134.783	137.491	Continuing	Continuing
650098: <i>Electromagnetic Battle Management (EMBM)</i>	0.000	0.000	0.000	96.100	0.000	96.100	59.900	58.300	45.750	48.000	Continuing	Continuing
650099: <i>Cognitive Electronic Warfare</i>	0.000	0.000	0.000	125.940	0.000	125.940	61.945	65.440	65.440	65.440	Continuing	Continuing
653891: <i>Adv Infrared Counter Measures(Aircm)</i>	0.000	13.648	18.971	20.193	0.000	20.193	27.764	29.572	16.376	16.708	Continuing	Continuing
658462: <i>Airborne Electronic Attack</i>	0.000	0.000	0.000	18.000	0.000	18.000	6.000	7.102	7.217	7.343	Continuing	Continuing

Note

This program, BA 5, PE 0604270F, project , EMBM Integration, is a new start.
 This program, BA 5, PE 0604270F, project , Enterprise Crowd Sourced Flight Data (E-CSFD), is a new start.
 This program, BA 5, PE 0604270F, project , RAVEN Ad-Hoc Comms, is a new start.
 This program, BA 5, PE 0604270F, project , Talon UPCYCLE, is a new start.
 This program, BA 5, PE 0604270F, project , Talon LURCHER, is a new start.
 This program, BA 5, PE 0604270F, project , Multi-Modal Delivery Capability, is a new start.

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.

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 32 R-1 Line #89 Volume 2 - 646

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
650098: <i>Electromagnetic Battle Management (EMBM)</i>	0.000	0.000	0.000	96.100	0.000	96.100	59.900	58.300	45.750	48.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604270F, project , EMBM Integration, is a new start.

This program, BA 5, PE 0604270F, project , Enterprise Crowd Sourced Flight Data (E-CSFD), is a new start.

This program, BA 5, PE 0604270F, project , RAVEN Ad-Hoc Comms, is a new start.

A. Mission Description and Budget Item Justification

The Department of the Air Force (DAF) Electromagnetic Battle Management (EMBM) is an automated family of systems/applications linked by common architectures, standards and data that will expeditiously receive, analyze, display, employ, and securely distribute friendly, neutral, and adversary Electromagnetic Spectrum (EMS) information. DAF EMBM will consist of five component capabilities; the ability to attain, maintain, and monitor the spectrum for EMS Situational Awareness (SA), assessment, and mission planning, decision support with command and control, and training interfaces to all levels of EMS Operations (EMSO). The coordination and synchronization of EMSO will provide real-time Non-Kinetic Fires Orchestration across domains in any range of military operations. DAF EMBM will feed into USSTRATCOM's EMBM-Joint (EMBM-J) at the Combatant Command-level enabling synchronization of Joint Non-Kinetic Fires and enabling resilient decision advantage in contested EM environments.

Within the Electronic Warfare (EW) Portfolio, the DAF EMBM program has the greatest reach across the entire force and is closest to operational capability. FY2027 funding will hire personnel and outfit spaces for the EMBM program office for the project. EMBM office will work towards maximum integration and synchronization of multiple programs.

The Enterprise-Crowd Sourced Flight Data (E-CSFD) program will ingest leading-edge Electromagnetic data from recording hardware, apply analytic and multi-level security screening, and pass the data back through the long-haul comm links for use by multiple users. The data will inform EW Integrated Reprogramming and intelligence efforts.

The Raven Communication system provides Ad-Hoc communications pathways that are dynamic, survivable, and varied in its detectability. Raven will provide Non-Kinetic orchestration and resource management.

This program is in Budget Activity 5, System Development and Demonstration (SDD) most of its elements have passed Milestone B, it's equivalent, or there is enough evidence that there is low risk in pursuing SDD type activities in pursuit of engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026			
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>		Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: EMBM Integration Description: The effort will fund the EMBM Program office FY 2026 Plans: Funding for this effort begins in FY2027 FY 2027 Base Plans: FY 2027 funding will hire personnel and outfit spaces to integrate RDT&E, procurement, and integration efforts for EMBM. FY 2026 to FY 2027 Increase/Decrease Statement: New Start		-	0.000	5.500	-	5.500
Title: Enterprise Crowd Sourced Flight Data (E-CSFD) Description: E-CSFD is data recorded from manned and unmanned platforms including Electromagnetic Warfare signals, Electro-Optical and Infrared (EO/IR) imagery, communications, Navigation, and Identification (CNI) information, Time Space Position Information (TSPI), video etc.. transported and presented in a user-defined format in an operationally relevant timeline to enhance EW reprogramming and intelligence debrief. FY 2026 Plans: Funding begins in FY27 FY 2027 Base Plans: Develop and demonstrate an edge based multi-weapon system capable tool suite to ingest, condition, identify, and transport data. Execute cross-domain solution and multiple-level security technologies. FY 2026 to FY 2027 Increase/Decrease Statement: New Start		-	0.000	26.600	-	26.600
Title: RAVEN Ad-Hoc Comms Description: RAVEN provides Ad-Hoc communications pathways that are dynamic, survivable, and vary in throughput and detectability used for Non-Kinetic orchestration amongst heterogeneous weapon systems and/or Electromagnetic Warfare payloads including resource management and scheduling capabilities. FY 2026 Plans:		-	0.000	64.000	-	64.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>		Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Funding Starts in FY27						
<i>FY 2027 Base Plans:</i> Execute development on Tool Chians, Ad-Hoc Datalinks, and Non-Kinetic Orchestration efforts to include software development, hardware production, and integration and flight testing of best-of-breed solutions.						
<i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> New Start						
Accomplishments/Planned Programs Subtotals		-	0.000	96.100	-	96.100
C. Other Program Funding Summary (\$ in Millions)						
N/A						
Remarks						
D. Acquisition Strategy						
Various acquisition approaches will be used. Government organic capabilities will be utilized to the greatest practical 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. Initial plans leverage existing efforts and their existing contract mechanism continuing and/or expanding the scope of work to meet Advanced EW Capability needs. Once initial infrastructure and capabilities are in place, long-term contracts will be required to maintain throughput						

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RAVEN: Tool-Chain	TBD	Not specified. : TBD	-	-		-		15.000	Aug 2027	-		15.000	Continuing	Continuing	-
E-CSFD: Hardware Dev	TBD	Not specified. : TBD	-	-		-		18.600		-		18.600	Continuing	Continuing	-
Subtotal			-	-		-		33.600		-		33.600	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RAVEN: Ad-Hoc D/Ls	TBD	Not specified. : TBD	-	-		-		13.000	Aug 2027	-		13.000	Continuing	Continuing	-
E-CSFD: Cyber Security	TBD	Not specified. : TBD	-	-		-		3.400	Aug 2027	-		3.400	Continuing	Continuing	-
Subtotal			-	-		-		16.400		-		16.400	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RAVEN: NK Orchestration	TBD	Not specified. : TBD	-	-		-		16.000	Aug 2027	-		16.000	Continuing	Continuing	-
RAVEN: Hardware Integration	TBD	Not specified. : TBD	-	-		-		20.000	Aug 2027	-		20.000	Continuing	Continuing	-
E-CSFD: Cyber Security	TBD	Not specified. : TBD	-	-		-		3.200	Aug 2027	-		3.200	Continuing	Continuing	-
Subtotal			-	-		-		39.200		-		39.200	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	TBD	Not specified. : TBD	-	-		-		5.500	Aug 2027	-		5.500	Continuing	Continuing	-
E-CSFD: It Management	TBD	Not specified. : TBD	-	-		-		1.400	Aug 2027	-		1.400	Continuing	Continuing	-
Subtotal			-	-		-		6.900		-		6.900	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>				
	Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		96.100		-		96.100	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0604270F / <i>Electronic Warfare Development</i>					650098 / <i>Electromagnetic Battle Management (EMBM)</i>			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Integration																												
SPO Standup																												
RAVEN																												
RAVEN																												
E-CSFD																												
E-CSFD																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Integration</i>				
SPO Standup	1	2027	4	2031
<i>RAVEN</i>				
RAVEN	1	2027	4	2031
<i>E-CSFD</i>				
E-CSFD	1	2027	4	2031

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 650099 / <i>Cognitive Electronic Warfare</i>			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
650099: <i>Cognitive Electronic Warfare</i>	0.000	0.000	0.000	125.940	0.000	125.940	61.945	65.440	65.440	65.440	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604270F, project , Talon UPCYCLE, is a new start.
This program, BA 5, PE 0604270F, project , Talon LURCHER, is a new start.

A. Mission Description and Budget Item Justification

Cognitive Electromagnetic Warfare (Cog EW) integrates multiple projects to achieve massed non-kinetic warfare dominance for the DoW Counter Long-Range Kill Chain (C-LRKC) and Counter-Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, & Reconnaissance (C-C5ISR) constructs. This funding increase adds two new interrelated activities and more expenditures on a current project in order to capture, employ, and exploit EW effectiveness improvements/synergies in contested/congested battlespaces.

The Modular Electromagnetic Attack Payloads (MEAP) project will, as part of the overall Cognitive EW Capabilities program, demonstrate and deliver advanced (e.g., using AI, ML, and Cognitive technologies) modularized (defined by size, weight, power/cooling, function, and interface standards) techniques for one (or more) threshold platform s. The intent is to provide an Electromagnetic Attack capability that can be adapted to a number of appropriate platforms to yield a massed non-kinetic fires effect.

The Exploitation Application project is the transition of two Air Force Tactical Exploitation of National Capabilities (TENCAP) programs to the operational Air Force. TENCAP increases warfighter effectiveness and promotes cross-domain integration by pursuing multiple small projects then transitioning them via rapid prototyping and capability demonstrations. This project consists of an aiming system to enable a separate firing system designed to effect satellite operations.

The Talon LURCHER system will fil key requirement for engaging targets at hypersonic speeds and extended ranges while synchronizing the entire effects chain. The management of these effects must be based on a multi-variable solution that accounts for time, space, range, and velocity relative to the target's specifications. Delivering non-atmospheric effects against targets moving at speeds greater than Mach 20 introduces significant challenges related to data latency. Therefore, this effort will develop and integrate technology specifically designed to alleviate these delays in the track and fire control loop while enabling consistent and accurate delivery of effects to fast-moving, long-range targets, serving as the key technical enabler to properly AIM the weapon system.

The Talon UPCYLE system will utilize existing COMPASS CALL SPEAR Gen 3 pods with current hardware and software to develop tactical counter-space EW systems. The systems will FIRE counter P-LEO techniques to degrade, deny, disrupt, and deceive SIGINT and IFTU satellites.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026				
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 650099 / <i>Cognitive Electronic Warfare</i>				
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 00605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2025 0M was expended for civilian pay expenses in this program element, and in FY 2026 0M is forecasted for civilian pay expense in this program element. This program is in Budget Activity 5, System Development and Demonstration (SDD) most of its elements have passed Milestone B, it's equivalent, or there is enough evidence that there is low risk in pursuing SDD type activities in pursuit of engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production							
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Modular Electromagnetic Attack Payloads (MEAP) Description: The Mod EA Payloads project is a use case exemplar exercising the Algo & Apps and EW Dev Env processes to produce fieldable supportable advanced EA capabilities for applications in multiple crewed and uncrewed platforms. It will produce various form factor payloads for integration into Open Architecture hardware/ software platforms providing both offensive and defensive EA for host and other airborne entities in contested/ congested environments. FY 2026 Plans: In FY2026, MEAP efforts were executed in PE 0207039F, Cognitive Electronic Warfare, Project 650099. FY 2027 Base Plans: Accelerating the development program in response to OFF Needs Statements and will transition several identified on-the-shelf EW capabilities to systems on diverse flying systems. FY 2026 to FY 2027 Increase/Decrease Statement: In FY2026, MEAP efforts were executed in PE 0207039F, Cognitive Electronic Warfare, Project 650099.			-	0.000	4.540	-	4.540
Title: Talon UPCYCLE Description: Firing portion of an EA program FY 2026 Plans: Funding begins in FY2027 FY 2027 Base Plans:			-	0.000	51.000	-	51.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>		Project (Number/Name) 650099 / <i>Cognitive Electronic Warfare</i>		
B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Repurposing existing pods and software integration efforts to develop three operational prototypes available for OT&E and system integration work soonest						
FY 2026 to FY 2027 Increase/Decrease Statement: New Start						
Title: Talon LURCHER		-	0.000	70.400	-	70.400
Description: Exploitation APP - AIM will transition an aircraft-agnostic roll-on/roll-off system with integrated antenna aiming software capable of working with commercial-off-the-self antenna technology to enable diverse target engagement.						
FY 2026 Plans: New Start in FY2027						
FY 2027 Base Plans: Software and aircraft integration with system testing and demos with three operational prototypes via connection to the FIRE portion of the Exploitation Application.						
FY 2026 to FY 2027 Increase/Decrease Statement: New Start						
Accomplishments/Planned Programs Subtotals		-	0.000	125.940	-	125.940
C. Other Program Funding Summary (\$ in Millions) N/A						
Remarks						
D. Acquisition Strategy Various acquisition approaches will be used. Government organic capabilities will be utilized to the greatest practical 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. Initial plans leverage existing efforts and their existing contract mechanism continuing and/or expanding the scope of work to meet Advanced EW Capability needs. Once initial infrastructure and capabilities are in place, long-term contracts will be required to maintain throughput						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 650099 / <i>Cognitive Electronic Warfare</i>
AF TENCAP projects are selected based upon needs identified by the program's customers - DoW Departments, Combatant Commands, Components, and/or MAJCOMS. Projects are mainly executed via AF TENCAP-owned single-award, multi-performer Indefinite Delivery/Indefinite Quantity contract or via existing contracts maintained by other agencies. The U.S Government organization sponsoring a project is responsible for assuming acquisition, deployment, logistics, sustainment and budgetary requirements for the developed capability after it has been successfully demonstrated by AF TENCAP. AF TENCAP projects typically use an incremental acquisition strategy. AF TENCAP utilizes a disciplined systems engineering approach that allows program teams to solve problems through a series of segments. Each segment must meet the defined success criteria before progressing to the next segment, mitigating costs and schedule risk. Contract funded in the program element will be awarded using competitive procedures to the maximum extent possible.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>						Project (Number/Name) 650099 / <i>Cognitive Electronic Warfare</i>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MEAP	C/CPAF	Not specified. : TBD	-	-		-		4.540	Aug 2027	-		4.540	Continuing	Continuing	-
Subtotal			-	-		-		4.540		-		4.540	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LURCHER	C/CPAF	Not specified. : TBD	-	-		-		51.000	Aug 2027	-		51.000	Continuing	Continuing	-
Subtotal			-	-		-		51.000		-		51.000	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
UPCYCLE	C/CPAF	Not specified. : TBD	-	-		-		70.400	Aug 2027	-		70.400	Continuing	Continuing	-
Subtotal			-	-		-		70.400		-		70.400	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		125.940		-		125.940	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 650099 / <i>Cognitive Electronic Warfare</i>			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Modular Electromagnetic Attack Payloads																												
MEAP																												
Talon LURCHER																												
AIM																												
Talon UPCYCLE																												
FIRE																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 650099 / <i>Cognitive Electronic Warfare</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Modular Electromagnetic Attack Payloads</i>				
MEAP	1	2027	4	2031
<i>Talon LURCHER</i>				
AIM	1	2027	4	2031
<i>Talon UPCYCLE</i>				
FIRE	1	2027	4	2031

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
653891: <i>Adv Infrared Counter Measures(Aircm)</i>	0.000	13.648	18.971	20.193	0.000	20.193	27.764	29.572	16.376	16.708	Continuing	Continuing
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 (AIRCm) 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."

The Electronic Warfare Avionics Integration Support Facility (EWAISF) has the Operational, Safety, Suitability, and Effectiveness (OSS&E) responsibility for USAF Avionics and EW Systems. They are also the sustainment reprogramming center (RC) for EWIR process charged with the following: Test/Check EW System Operational Flight Programs (OFPs), supporting MAJCOM mission data RC with reprogramming tools, and total EW system testing to ensure mission capability. This is accomplished by replicating the Electromagnetic Spectrum (EMS) environment for Hardware-in-the-loop (HITL) laboratory testing. This testing validates previous open-air test & evaluation of modified EW systems via internal test, evaluation, assessment, and characterization capability representing current and emerging adversary systems to include network centric capabilities.

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

	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Threat Acquisition & Exploitation	1.900	2.000	3.000	-	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 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					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force				Date: April 2026				
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
solutions. Investment will grow capacity to acquire and exploit multiple systems simultaneously reducing time to deliver countermeasure capabilities.								
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 2027 Base 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 2026 to FY 2027 Increase/Decrease Statement: AFRL expanding effort, to include increasing personnel for support.								
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.				4.105	3.595	3.063	-	3.063
FY 2026 Plans: Invest in maturing Army DEVCOM alternative pyrophoric material, fund rapid prototyping and development activities.								
FY 2027 Base Plans: Invest in maturing Army DEVCOM alternative pyrophoric material as well as Crane Army Ammunition Activity (CAAA) improved devices, fund rapid prototyping and development activities.								
FY 2026 to FY 2027 Increase/Decrease Statement: CAAA will be decreasing spending from FY 2026 to FY 2027 due to higher startup costs in FY 2026								
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				0.577	6.376	7.090	-	7.090

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026				
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
events to reduce timeline from updated countermeasure recommendations to test and validation of performance. The increased funding levels will reduce timeline to deliver countermeasures capabilities.							
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 2027 Base Plans: Funding will support conduct of test events in FY 2027 to include infrared air-to-air and radio frequency countermeasure testing.							
FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 funding increased from FY 2026 due to match test infrastructure requirements with testing capabilities							
Title: Countermeasure Modeling and Simulation			1.560	2.000	2.040	-	2.040
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 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.							
FY 2027 Base 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.							
FY 2026 to FY 2027 Increase/Decrease Statement:							

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Costs increased from FY 2026 to FY 2027 due to inflation						
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 2026 Plans: Project 653891 EMBM is moving to its individual PE 0207407F FY 2027 Base Plans: n/a FY 2026 to FY 2027 Increase/Decrease Statement: n/a		2.756	0.000	0.000	-	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 2026 Plans: Project 653891 Cognitive EW is moving to its individual PE 0207039F FY 2027 Base Plans: n/a FY 2027 OOC Plans: n/a FY 2026 to FY 2027 Increase/Decrease Statement: n/a		2.750	0.000	0.000	0.000	0.000
Title: Electronic Warfare Avionics Integration Support Facility (EWAISF)		0.000	0.000	5.000	-	5.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force								Date: April 2026					
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Description: EWASIF facility and IT infrastructure modernization efforts FY 2026 Plans: EWASIF performs operational representative laboratory testing for the EW systems, documenting the effectiveness of aircraft EW Operation Flight Programs (OFP) against current and emerging threats. FY 2027 Base Plans: EWASIF will modernize the threat simulation / emulation so that operational capability can be assessed and survivability maximized. The next three years of funding will address modernization of facilities and equipment to characterize new and future EW threats. The current closed-loop system was developed in 2014 and technology modernization is required to replicate new threat capability FY 2026 to FY 2027 Increase/Decrease Statement: Inadvertent placement of modernization funds here in FYs 2027, 2028, and 2029, the current operational baseline funding is found in PE 0207439F under program code of BPL 000.													
Accomplishments/Planned Programs Subtotals								13.648	13.971	20.193	0.000	20.193	
								FY 2025	FY 2026				
Congressional Add: AI-Enabled EW								0.000	5.000				
FY 2025 Accomplishments: N/A													
FY 2026 Plans: Develop AI-enabled Electronic Warfare for aircraft protection.													
Congressional Adds Subtotals								0.000	5.000				
C. Other Program Funding Summary (\$ in Millions)													
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost		
• PAAF 01 356010: <i>Expendable Countermeasures</i>	83.641	101.540	98.585	-	98.585	100.207	101.784	103.429	105.497	Continuing	Continuing		
Remarks													
Qualified flares, if not in AF inventory, will be procured under program 0208030F War Reserve Munitions, Flares.													

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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>

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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Pyrophoric Alternative Material	MIPR	DEVCOM AC : Picatinny Arsenal, NJ	-	0.800	Nov 2024	0.900	May 2026	0.900	Jan 2027	-		0.900	Continuing	Continuing	-
IR Advanced Countermeasure Prototyping and Design	Various	Various : TBD	-	1.069	Nov 2024	8.695	Jun 2026	7.163	Jan 2027	-		7.163	Continuing	Continuing	-
Cognitive Electromagnetic Warfare (EW)	Various	Air Combat Command : Langley AFB, VA	-	2.750	Oct 2024	-		-		-		-	Continuing	Continuing	-
Electromagnetic Battle Management (EMBM)	Various	Air Combat Command : Langley AFB, VA	-	2.756	Oct 2024	-		-		-		-	Continuing	Continuing	-
Subtotal			-	7.375		9.595		8.063		-		8.063	Continuing	Continuing	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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.410	Feb 2025	-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.410		-		-		-		-	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.668	Jan 2025	2.000	Jan 2026	3.500	Dec 2026	-		3.500	Continuing	Continuing	-
IR Modeling and Simulation	MIPR	Various : TBD	-	2.729	Jan 2025	1.000	Jan 2026	2.040	Dec 2026	-		2.040	Continuing	Continuing	-
Test Event	MIPR	Various : TBD	-	1.466	Sep 2025	6.376	Jun 2026	6.590	Jan 2027	-		6.590	Continuing	Continuing	-
Subtotal			-	5.863		9.376		12.130		-		12.130	Continuing	Continuing	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															
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															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026		
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>				
	Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	13.648		18.971		20.193		-		20.193	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	2025	1	2030
Threat Acquisition & Exploitation	1	2025	4	2031
Pyrophoric Alternative Material	2	2025	3	2028
IR Advanced Countermeasure Prototyping and Design	2	2025	4	2031
IR Modeling and Simulation	1	2025	4	2031
Subsonic Sled Track for Countermeasure Development	2	2026	4	2031
RF Modeling & Simulation	2	2025	4	2031
Test Event	1	2025	4	2031
<i>Cognitive Electromagnetic Warfare (EW)</i>				
Cognitive Electromagnetic Warfare (EW)	1	2025	4	2025
<i>Electromagnetic Battle Management (EMBM)</i>				
Electromagnetic Battle Management (EMBM)	1	2025	4	2025

Note

Both the Cognitive Electromagnetic Warfare and Electromagnetic Battle Management efforts are moving to their own PEs; 0207039F and 0207407F respectively in FY 2026

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>				Project (Number/Name) 658462 / <i>Airborne Electronic Attack</i>			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
658462: <i>Airborne Electronic Attack</i>	0.000	0.000	0.000	18.000	0.000	18.000	6.000	7.102	7.217	7.343	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604270F, project , Multi-Modal Delivery Capability, is a new start.

A. Mission Description and Budget Item Justification

The Multi-Modal Delivery Capability project will operationalize the nascent High Altitude Balloon (HAB) program and deliver immediate operational missions. Operational employment of HAB systems requires a hybrid approach with different but complimentary systems. This program will focus on low-cost, attributable tactical swarming platforms for rapid employment when limited indicators and warnings.

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 00605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F.

This program is in Budget Activity 5, System Development and Demonstration (SDD) most of its elements have passed Milestone B, it's equivalent, or there is enough evidence that there is low risk in pursuing SDD type activities in pursuit of engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production

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

	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Multi-Modal Delivery Capability	-	0.000	18.000	-	18.000
Description: Directed research into the development of a dedicate EW HAB system with emphasis on power generation, tactical hydrogen generation, payload development, integration, C2, effectiveness, and recovery, and threat analysis.					
FY 2026 Plans: Funding begins in FY27					
FY 2027 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026			
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>		Project (Number/Name) 658462 / <i>Airborne Electronic Attack</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Work on the gondola system development and EW payload integration into a functional prototype, and experimenting with deployment/employment operations						
FY 2026 to FY 2027 Increase/Decrease Statement: New Start						
Accomplishments/Planned Programs Subtotals		-	0.000	18.000	-	18.000
C. Other Program Funding Summary (\$ in Millions) N/A						
Remarks						
D. Acquisition Strategy Various acquisition approaches will be used. Government organic capabilities will be utilized to the greatest practical 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. Initial plans leverage existing efforts and their existing contract mechanism continuing and/or expanding the scope of work to meet Advanced EW Capability needs. Once initial infrastructure and capabilities are in place, long-term contracts will be required to maintain throughput.						

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>						Project (Number/Name) 658462 / <i>Airborne Electronic Attack</i>			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Multi-Modal	C/CPAF	Not specified. : TBD	-	-		-		18.000	Aug 2027	-		18.000	Continuing	Continuing	-
Subtotal			-	-		-		18.000		-		18.000	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		18.000		-		18.000	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026																			
Appropriation/Budget Activity 3600 / 5										R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>										Project (Number/Name) 658462 / <i>Airborne Electronic Attack</i>									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Multi-Modal																												
HABS																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604270F / <i>Electronic Warfare Development</i>	Project (Number/Name) 658462 / <i>Airborne Electronic Attack</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Multi-Modal</i>				
HABS	1	2027	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	76.188	76.418	110.151	0.000	110.151	106.739	108.311	110.028	111.461	Continuing	Continuing
655050: <i>TDL System Integration</i>	0.000	76.188	76.418	110.151	0.000	110.151	106.739	108.311	110.028	111.461	Continuing	Continuing

Note

This program, BA 5, PE 0604281F, project 655050, Link 22, is a new start.

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 enable the transmission of life-saving data 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 datalinks (TDLs), 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 six 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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
Communications efforts), and Second-Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) waveform sponsor activities, Advanced Tactical Datalinks, and Link 22. 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, Link 16 & MIDS-J improvements as needed, cybersecurity and performance testing, requirements analysis and fleet road mapping 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, or could include radio, antenna, aperture, multifunction processor development or other such technological conception, development, prototyping and demonstration. Prior 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. The Advanced Tactical Datalinks thrust evolves existing and develops new waveforms to keep pace with the evolving operational environment. One sample capability being developed is the Direct Line of Sight (DLOS) capability whose initiation commenced in another PE and which will transfer into this PE from in FY 2027. Funds will continue development to support current and future warfighter needs in evolving threat landscapes. DLOS and other ATDLs will enable mission success against adversary capabilities that deny Link 16 operations as well as other waveforms.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
Link 22 provides a long range surveillance Beyond Line of Sight (BLOS) datalink where SATCOM or alternate connectivity is not available. Link 22 provides tactical interoperability between air, surface, subsurface, and ground-based tactical data systems currently fielded to the U.S. Navy, NATO, and non-Link 16 coalition partners. Per DoD CIO, the replacement for Link-11 is Link-22. 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. 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 included all necessary 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, and 0605898F. Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes 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 2027 Air Force				Date: April 2026	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604281F I Tactical Data Networks Enterprise			
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	78.480	77.170	0.000	0.000	0.000
Current President's Budget	76.188	76.418	110.151	0.000	110.151
Total Adjustments	-2.292	-0.752	110.151	0.000	110.151
• 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	-2.292	-0.752			
• Other Adjustments	0.000	0.000	110.151	0.000	110.151
Change Summary Explanation					
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
655050: <i>TDL System Integration</i>	0.000	76.188	76.418	110.151	0.000	110.151	106.739	108.311	110.028	111.461	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604281F, project 655050, Link 22, is a new start.

In Budget Year FY 2027, Project MBeam, whose Program Element (PE) resides at a higher classification level, will be transferred to PE 0604281F, Tactical Data Networks Enterprise, as Project MBeam, in order to facilitate management of development, testing, and integration with other tactical data networks at the enterprise level. Details such as PE Number and Name executing Project MBeam during the Current Year remain at a higher classification level and may be provided upon request.

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 datalinks (TDLs), 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 six 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, Advanced Tactical Datalinks, and Link 22.

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 road mapping

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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>
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, or could include radio, antenna, aperture, multifunction processor development or other such technological conception, development, prototyping and demonstration. Prior 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. The MBeam thrust develops a new waveform as a more advanced tactical data link (ATDL) to keep pace with the evolving operational environment. MBeam's initiation commenced in another Program Element (PE) and will transfer into this PE in FY 2027. Funds will continue development to support current and future warfighter needs in evolving threat landscapes. MBeam and other ATDLs will enable mission success against adversary capabilities that deny Link 16 operations as well as other waveforms. Link 22 provides a long range surveillance Beyond Line of Sight (BLOS) datalink where SATCOM or alternate connectivity is not available. Link 22 provides tactical interoperability between air, surface, subsurface, and ground-based tactical data systems currently fielded to the U.S. Navy, NATO, and non-Link 16 coalition partners. Per DoD CIO, the replacement for Link-11 is Link-22.		

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise	Project (Number/Name) 655050 / TDL System Integration		
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.				
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 included all necessary 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, and 0605898F. In FY 2025, 1.304M was expended for civilian pay expenses in this program element. In FY 2026, 2.800M is forecasted for civilian pay expenses in this program element.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Common Tactical Edge Network (CTEN)		44.451	41.752	24.218
Description: CTEN 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. CTEN 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.				
CTEN 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 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) 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 2026 Plans: -Continue to develop and demonstrate the CTEN Minimum Viable Capability Release (MVCR).				

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
-The first operational release of CTEN is scheduled for early 2026 followed by another release later in 2026. Both will be integrated on Phalanx Nomad hardware baseline with final delivery of full Phalanx Griffon (PG)-system to F15 SPO in calendar year 2026. This includes software Model Based System Engineering artifacts -Complete systems architecting and continue to support advanced non-proprietary antenna apertures necessary to mature the Enterprise Approach to the Joint Aerial Network. -Complete systems architecture with associated CTEN reference architecture Model Based System Engineering artifacts. -Develop software sustainment plan and contract award. FY 2027 Plans: -Will continue to execute software releases, integration, and demonstrations. -Will continue to engineer the capability to provide data routing critical to the operation of PG/C3HST and the associated Phalanx Watch network support function. -Will continue to upgrade software as the ability to scale CTEN and integrate increased ground nodes and weapons platforms will continue as PG expands. FY 2026 to FY 2027 Increase/Decrease Statement: Decrease from FY 2026 to FY 2027 due to realignment for higher operational priorities.			
Title: MBeam Description: Funds will develop advanced data links to support current and future warfighter needs in evolving threat landscapes. MBeam is a protected, scalable, and open-designed waveform that is directional, anti-jam, supports large, dense, mesh networks operating using internet protocol (IP), permits ad-hoc networks, and government-owned. FY 2026 Plans: This program is executing in another program element during the current year and is transitioning into this program element (0604281F) during the budget year. MBeam currently resides in a higher classification level; details may be provided upon request. In Budget Year FY 2027, Project MBeam, whose Program Element (PE) resides at a higher classification level, will be transferred to PE 0604281F, Tactical Data Networks Enterprise, as Project MBeam, in order to facilitate management of development, testing, and integration with other tactical data networks at the enterprise level. FY 2027 Plans: -Will develop capability to share tactical information, fuse sensor information, cooperate with other network assets, and otherwise provide enterprise data link capabilities to support current and future warfighter needs in evolving threat landscapes -Will develop MBeam waveform and specifications -Will implement MBeam waveform specification -Will conduct interoperability virtual testing		0.000	50.796

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
-Will conduct interoperability flight testing -Will develop NSA-certified cryptographic units (CUs) for waveform cryptographic equipment applications (CEAs) for US government enterprise use -Will conduct flight testing of integrated cryptographic subsystem In Budget Year FY 2027, Project MBeam, whose Program Element (PE) resides at a higher classification level, will be transferred to PE 0604281F, Tactical Data Networks Enterprise, as Project MBeam, in order to facilitate management of development, testing, and integration with other tactical data networks at the enterprise level. FY 2026 to FY 2027 Increase/Decrease Statement: Increase from FY 2026 to FY 2027 due to the effort being transferred from another program element. In Budget Year FY 2027, Project MBeam, whose Program Element (PE) resides at a higher classification level, will be transferred to PE 0604281F, Tactical Data Networks Enterprise, as Project MBeam, in order to facilitate management of development, testing, and integration with other tactical data networks at the enterprise level. Details such as PE Number and Name executing Project MBeam during the Current Year remain at a higher classification level and may be provided upon request.				
Title: Link 22 Description: These funds address the enduring requirement for long range surveillance beyond line of sight data link where satellite communications or alternate connectivity is not available. Link 11 is currently the only data link capable but is now past its sundown date. Funds will provide for research, development, testing and evaluation of Link 22 systems to replace the Link 11 systems in NORAD, Control and Reporting Centers (CRCs), Battle Control Centers (BCCs) and Air Operations Centers (AOCs) across the Air Force. FY 2026 Plans: New Start in FY2027 FY 2027 Plans: -Will build equipment packages consisting of Link 22 equipment to engineer and install the Link 22 capability into multiple tactical control agencies and their tactical data systems -Will perform testing & technical validation and verification as needed for integration -Will perform engineering, integration, and installation of the Link 22 capability at North American Aerospace Defense Command (NORAD), one Control & Reporting Center (CRC), and one Battle Control Center (BCC) FY 2026 to FY 2027 Increase/Decrease Statement:		0.000	0.000	7.714

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
Increase from FY2026 to FY2027 due to this effort being a New Start.			FY 2027
Title: Tactical Data Links and Gateways (TDL&G) Integration		26.041	28.517
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.			22.193
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.			
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 2026 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 ensure compatibility and interoperability of TDLs by developing TDL messaging capability to address new or updated operational requirements			
FY 2027 Plans:			
- Will continue to manage the development, certification, training and logistics plans for individual TDL implementations to Joint/ allied standards.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
- 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 2026 to FY 2027 Increase/Decrease Statement: Decrease from FY 2026 to FY 2027 due to realignment for higher operational priorities.				
Title: Second Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) 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 2026 Plans: - 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 2027 Plans: - Will continue to update the waveform specification complying with NATO STANAG and testing utilizing the Reference Implementation Lab (RIL). - Will continue to 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 to FY 2027 Increase/Decrease Statement: Decrease from FY 2026 to FY 2027 due to realignment for higher operational priorities.		5.696	6.149	5.230
Accomplishments/Planned Programs Subtotals		76.188	76.418	110.151

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force									Date: April 2026		
Appropriation/Budget Activity 3600 / 5			R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Enterprise					Project (Number/Name) 655050 / TDL System Integration			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• RDTE 07 PE	0.000	0.000	-	-	-	-	-	-	-	Continuing	Continuing
0207448F: C2ISR TDL											
• APAF 05 Line Item F01500: F-15	-	0.000	-	-	-	-	-	-	-	Continuing	Continuing
• APAF 05 Line Item F01600: F-16	-	0.000	-	-	-	-	-	-	-	Continuing	Continuing
• APAF 05 Line Item B00200: B-2A	0.221	0.000	-	-	-	-	-	-	-	Continuing	Continuing
• APAF 05 Line Item B01B00: B-1B	-	0.000	-	-	-	-	-	-	-	Continuing	Continuing
• OPAF 03 Line Item 834010:	0.815	0.000	-	-	-	-	-	-	-	Continuing	Continuing
General Information Technology											
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 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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604281F / Tactical Data Networks Ent erprise						Project (Number/Name) 655050 / TDL System Integration			
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	11.991	Jan 2025	11.699	May 2026	7.317	Sep 2027	-		7.317	Continuing	Continuing	-
SATURN	C/Various	Not specified. : TBD	-	4.170	Apr 2025	4.231	Apr 2026	4.695	Mar 2027	-		4.695	Continuing	Continuing	-
CTEN	Various	Various : Various	-	40.701	Jan 2025	39.164	Jan 2026	21.573	Jan 2027	-		21.573	Continuing	Continuing	-
AACT - Link 16 Enhancements	Various	MITLL : Bedford, MA	-	0.300	Jul 2025	-		-		-		-	0.000	0.300	-
MBeam	C/TBD	Not specified. : TBD	-	-		-		45.796	Jun 2027	-		45.796	Continuing	Continuing	-
Link 22	C/TBD	Not specified. : TBD	-	-		-		5.714	Jun 2027	-		5.714	Continuing	Continuing	-
Subtotal			-	57.162		55.094		85.095		-		85.095	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.736	Apr 2025	5.689	Apr 2026	2.514	Feb 2027	-		2.514	Continuing	Continuing	-
TDL&G DCA	Allot	Not specified. : TBD	-	-		2.027	Apr 2026	2.800	Sep 2027	-		2.800	Continuing	Continuing	-
CTEN A&AS support	Various	Not specified. : TBD	-	3.750	Feb 2025	2.588	Feb 2026	2.645	Feb 2027	-		2.645	Continuing	Continuing	-
SATURN DCA	Allot	Not specified. : TBD	-	-		1.320	Apr 2026	0.200	Sep 2027	-		0.200	Continuing	Continuing	-
SATURN A&AS support	C/TBD	Not specified. : TBD	-	1.580	Apr 2025	1.330	Apr 2026	1.600	Feb 2027	-		1.600	Continuing	Continuing	-
MBeam A&AS Support	C/TBD	Not specified. : TBD	-	-		-		5.000	Feb 2027	-		5.000	Continuing	Continuing	-
Link 22 A&AS Support	C/TBD	Not specified. : TBD	-	-		-		2.000	Feb 2027	-		2.000	Continuing	Continuing	-
Subtotal			-	9.066		12.954		16.759		-		16.759	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.500	Nov 2024	2.000	Nov 2025	1.639	Jan 2027	-		1.639	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026					
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)					
3600 / 5						PE 0604281F / Tactical Data Networks Enterprise						655050 / TDL System Integration					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.500	Mar 2025	3.600	Mar 2026	3.800	Feb 2027	-		3.800	Continuing	Continuing	-		
TDL&G Integration - AFPTU	Various	Various : Various	-	1.870	May 2025	1.870	Aug 2026	2.100	Sep 2027	-		2.100	Continuing	Continuing	-		
Subtotal			-	8.870		7.470		7.539		-		7.539	Continuing	Continuing	N/A		
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.403	Mar 2025	0.450	Mar 2026	0.000	Feb 2027	-		0.000	Continuing	Continuing	-		
TDL&G Nato	C/CPAF	MITRE : Bedford MA	-	0.687	Aug 2025	0.450	Aug 2026	0.758	Mar 2027	-		0.758	0.000	1.895	-		
Subtotal			-	1.090		0.900		0.758		-		0.758	Continuing	Continuing	N/A		
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			-	76.188		76.418		110.151		-		110.151	Continuing	Continuing	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 5					PE 0604281F / Tactical Data Networks Enterprise					655050 / TDL System Integration									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
CTEN Agile Comms																												
SATURN																												
Link 22																												
MBeam																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2025	4	2030
AACT - SPOC	1	2025	2	2026
CTEN Agile Comms	1	2025	4	2030
SATURN	1	2025	4	2030
Link 22	1	2027	4	2030
MBeam	1	2027	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	7.720	15.005	8.743	0.000	8.743	9.122	9.319	9.493	9.686	Continuing	Continuing
655120: Physical Security Equipment - SD ED	0.000	7.720	15.005	8.743	0.000	8.743	9.122	9.319	9.493	9.686	Continuing	Continuing
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 FY2027 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.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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				
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		10.569	10.589	0.000	0.000	0.000
Current President's Budget		7.720	15.005	8.743	0.000	8.743
Total Adjustments		-2.849	4.416	8.743	0.000	8.743
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	4.500			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-2.600	0.000			
• SBIR/STTR Transfer		-0.249	-0.084			
• Other Adjustment		0.000	0.000	8.743	0.000	8.743
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
FY2026 budget request was increased by \$4.500 million for Program increase - realistic training for Air Force security forces perimeter defense readiness.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: IBDSS-4				7.720	15.005	8.743
Description: IBDSS-4 (Integrated Base Defense Security Systems) qualifies, demonstrates, and tests Physical Security Equipment (PSE) systems to include Force Protection.						
FY 2026 Plans:						
IBDSS-4						
- Conduct market research, evaluation and testing to address capability gaps and obsolescence to include, but not limited to Force Protection Commercial Off-The-Shelf (COTS) items.						
- 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.						
- Integration and/or modification of COTS efforts to improve IBDSS physical security equipment.						
- Further integration and testing of Defender Multi-Domain Command, Control and Communications (DMDC3) software applications from either COTS suppliers or modified COTS systems.						
- Integration of DMDC3 with external systems in order to meet Advanced Battle Management System (ABMS)/Joint All Domain Command and Control (JADC2) directive.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force							Date: April 2026				
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 2025	FY 2026	FY 2027		
- Expand upon and scale IBDSS modernization efforts to include, but not limited to, zero-trust architecture, Machine Learning (ML)/Artificial Intelligence (AI) integration, expanded sensor capabilities, Unmanned Aircraft Systems (UAS)/Unmanned Ground Vehicle (UGV) integration, and improved mobile Command, Control, and Communications (C3). - Integration, testing, and evaluation of equipment to expand the Security Force's Tactical Sensor System (TSS) in support of AFFORGEN implementation. - Development of realistic, high-fidelity training capabilities that enhance Air Force Security Forces' perimeter defense readiness in coordination with the Air Force Security Forces Center (AFSFC) and Air Force Installation and Mission Support Center (AFIMSC). FY 2027 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 2026 to FY 2027 Increase/Decrease Statement: Funding decreased from FY 2026 to FY2027 due to FY26 Congressional Add for realistic training for Air Force security forces perimeter defense readiness.											
Accomplishments/Planned Programs Subtotals							7.720	15.005	8.743		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 03 834130: Air Force Physical Security System	135.552	109.374	74.317	-	74.317	75.858	77.366	72.731	74.246	Continuing	Continuing
Remarks											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
E. Acquisition Strategy Air Force Security Force Center (AFSFC) and Force Protection program office investigates requirements to include new and/or obsolete items. Commercial Off-The-Shelf (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. 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 Defender Multidomain Command, Control, and Communications (DMDC3) and Integrated Base Defense Security Systems (IBDSS) of the future by integrating COTS equipment, such as Lenel, Hirsch, and Genetic equipment, with Vindicator and Advantor Intrusion Detection Systems (IDS) through a single software solution at various bases to establish a single common operating picture for the Defender community. Supports Modular Open Systems Architecture (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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.692	Dec 2024	-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-4)	Various	Various : Various	-	-		3.399	Jan 2026	3.126	Dec 2026	-		3.126	Continuing	Continuing	-
Security Forces Perimeter Defense Readiness	TBD	Not specified. : TBD	-	-		4.500	Sep 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	1.692		7.899		3.126		-		3.126	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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) -Direct Cite Authority	Various	Various : Various	-	1.059	Jan 2025	-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-4) -Direct Cite Authority	Various	Various : Various	-	-		1.100	Mar 2026	1.200	Mar 2027	-		1.200	Continuing	Continuing	-
Subtotal			-	1.059		1.100		1.200		-		1.200	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.421	Feb 2025	-		-		-		-	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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-4)	Various	Various : Various	-	-		3.120	Jan 2026	1.882	Jan 2027	-		1.882	Continuing	Continuing	-
Subtotal			-	1.421		3.120		1.882		-		1.882	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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) -PSC	Various	Various : Hanscom, MA	-	2.218	Jun 2025	-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-3) -FFRDC	Various	Various : Burlington, MA	-	1.330	Jan 2026	-		-		-		-	Continuing	Continuing	-
Integrated Base Defense Security Systems (IBDSS-4) -PSC	Various	Various : Hanscom, MA	-	-		2.886	Apr 2026	2.535	Apr 2027	-		2.535	Continuing	Continuing	-
Subtotal			-	3.548		2.886		2.535		-		2.535	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	7.720		15.005		8.743		-		8.743	Continuing	Continuing	N/A
Remarks Various contract vehicles will be awarded throughout the fiscal year for numerous projects.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force											Date: April 2026				
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
FY2025 Events																												
Integrated Base Defense Security Systems (IBDSS-4)																												
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 2027 Air Force		Date: April 2026
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
FY2025 Events				
Integrated Base Defense Security Systems (IBDSS-4)	1	2025	4	2026
FY2026 Events				
Integrated Base Defense Security Systems (IBDSS-4)	1	2026	4	2027
FY2027 Events				
Integrated Base Defense Security Systems (IBDSS-4)	1	2027	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	1,801.293	2,218.921	0.000	2,218.921	2,518.824	2,710.091	1,889.266	1,352.591	Continuing	Continuing
656507: Survivable Airborne Operations Center	0.000	0.000	1,801.293	2,218.921	0.000	2,218.921	2,518.824	2,710.091	1,889.266	1,352.591	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 War (SECWAR), 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 Air Force (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 Department of War (DoW) 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, risk mitigation strategies, and other required program office capabilities.

The FY 2026 spend plan amount for SAOC RDT&E includes \$1,801,300 thousand of discretionary and \$64,500 thousand of mandatory (reconciliation) for a total of \$1,865,800 thousand.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604288F I Survivable Airborne Operations Center (SAOC)				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	0.000	1,826.328	0.000	0.000	0.000	
Current President's Budget	0.000	1,801.293	2,218.921	0.000	2,218.921	
Total Adjustments	0.000	-25.035	2,218.921	0.000	2,218.921	
• 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	-25.035				
• Other Adjustments	0.000	0.000	2,218.921	0.000	2,218.921	
Change Summary Explanation						
FY 2026 budget request decreased by \$25.035 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: SAOC				0.000	1,801.293	2,218.921
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 2026 Plans:						
- 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 Nuclear Command, Control, and Communications (NC3), Command, Control, and Communications (C3), Cryptographic, OA/OMS, and other mission system capabilities to ensure						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
systems are sustainable and available to integrate into the EMD design and overall SAOC Weapon System (to include FAB-T CPT) - 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 Test and Evaluation (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 Line Replaceable Unit (LRU) levels; continue development of the T&E System Integration Laboratory (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 2027 Plans: - Continue executing Engineering and Manufacturing Development (EMD) design activities to include system engineering, trade studies, system/subsystem engineering analysis, preliminary design and critical design for the aircraft, mission system, training systems, and supporting systems - Continue Mission System EMD development, modernization, and delivery of required Nuclear Command, Control, and Communications (NC3), Command, Control, and Communications (C3), Cryptographic, Open Architecture / Open Mission Systems (OA/OMS), software, workstations, mission system infrastructure, and other mission system capabilities to ensure systems are sustainable and available to integrate into the EMD design and overall SAOC Weapon System - Continue executing EMD design activities to include system engineering and system/subsystem design reviews, manufacturing readiness and quality assurance as part of the Preliminary Design Review Process. - 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 activities including manning, procurement of test equipment, training, and facility modifications; continue early functional testing at the component and Line Replaceable Unit (LRU) levels; continue development of the T&E SIL - Continue executing Air Vehicle EMD design activities to include systems engineering, trade studies, system/subsystem engineering analysis, risk reduction, prototyping, integration, survivability mandates, test readiness, preliminary design, and initial critical design for the aircraft. Continue to execute Commercial Derivative Aircraft (CDA) Pre Ops Support activities to ensure green aircraft availability to support continued EMD characterization, modification, test, certification, and delivery objectives				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force									Date: April 2026		
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)							
C. Accomplishments/Planned Programs (\$ in Millions)									FY 2025	FY 2026	FY 2027
- Continue executing Training System EMD design activities to include training system development, training curriculum development, system/subsystem training analysis, preliminary design and initial critical design of the SAOC training system for operations and maintenance. Continue coordination activities with appropriate stakeholders to support SAOC fielding and bed-down requirements. Continue coordination activities with appropriate stakeholders to support the design of SAOC facilities at the main operating base (MOB) - 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 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to the expansion of system engineering and design activities, 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	1,801.293	2,218.921
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• RDTE 07 0303131F: Minimum Essential Emergency Communications Network (MEECN)	2.607	0.303	31.000	-	31.000	0.000	0.000	0.000	-	0.000	33.910
• RDTE 07 0303140F: Information Systems Security Program	-	13.583	12.244	-	12.244	2.930	-	-	-	0.000	28.757
• MILCON 32021F	80.000	42.400	40.700	-	40.700	623.400	934.500	955.400	314.600	0.000	2,991.000
SAOC MILCON:: N/A (2)											
• APAF 05 SAOC00: SAOC Aircraft Funding	-	-	-	-	-	-	64.500	-	181.430	5,220.600	5,466.530
• OPAF 03 0302021F: SAOC OPAF	-	1.400	-	-	-	-	39.548	245.108	248.999	0.000	535.055
Remarks											
E. Acquisition Strategy											
Based on the Acquisition Strategy approved by Under Secretary of War for Acquisition and Sustainment on 30 June 2022, SAOC entered the acquisition pathway at Milestone B on 25 April 2024. On 26 April 2024, SAOC 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											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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)	
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		1,543.666	Oct 2025	2,066.072	Oct 2026	-		2,066.072	Continuing	Continuing	-
Mission Systems/ Subsystems Development	C/Various	Various : TBD	-	-		174.375	Jan 2026	71.353	Jan 2027	-		71.353	Continuing	Continuing	-
Subtotal			-	-		1,718.041		2,137.425		-		2,137.425	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		26.981	Oct 2025	14.483	Oct 2026	-		14.483	Continuing	Continuing	-
Direct Cite Civilian Pay	TBD	Hanscom AFB, MA : Hanscom, AFB, MA	-	-		3.520	Oct 2025	5.608	Oct 2026	-		5.608	Continuing	Continuing	-
Subtotal			-	-		30.501		20.091		-		20.091	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	26.385	Oct 2026	-		26.385	Continuing	Continuing	-
Subtotal			-	-		16.410		26.385		-		26.385	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		12.491	Oct 2025	12.753	Oct 2026	-		12.753	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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>			
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	15.617	Oct 2026	-		15.617	Continuing	Continuing	-
PMA - Other	Various	Bedford, MA : Hanscom AFB, MA	-	-		8.554	Oct 2025	6.650	Oct 2026	-		6.650	Continuing	Continuing	-
Subtotal			-	-		36.341		35.020		-		35.020	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		1,801.293		2,218.921		-		2,218.921	Continuing	Continuing	N/A
Remarks															
Remarks Product Development: -FY 2026: Prime line includes a Termination Liability (TL) of \$344.6 million, Anti-deficiency Act requires an agency have sufficient funds available to pay TL if and when the contingency materializes -FY 2027 decrease in Directed Mission Systems due to FAB-T terminal purchases completing -FY 2027 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 2027 decrease in Direct Mission Support is due to the digital engineering infrastructure maturing Test and Evaluation (T&E): -FY 2027 increase in T&E is due to continuing ramp-up of T&E execution 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 2027 decrease due to a small decrease in PMA requirements															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Preliminary Design Phase																												
Critical Design Review Phase																												
System Integration Lab Development																												
Aircraft Modifications																												
Air Vehicle Design and Install																												
Ground/Training Systems Dev and Fielding																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	1	2025	4	2031
Preliminary Design Phase	4	2025	1	2028
Critical Design Review Phase	1	2027	4	2029
System Integration Lab Development	2	2025	4	2031
Aircraft Modifications	1	2025	4	2031
Air Vehicle Design and Install	1	2025	4	2031
Ground/Training Systems Dev and Fielding	4	2025	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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>I Armament/Ordnance Development</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	5.304	7.174	96.762	0.000	96.762	48.338	38.087	8.039	8.202	Continuing	Continuing
653133: <i>Bombs & Fuzes</i>	0.000	1.163	1.571	90.915	0.000	90.915	42.272	31.903	1.737	1.773	Continuing	Continuing
655361: <i>Stores-Aircraft Interface</i>	0.000	4.141	5.603	5.847	0.000	5.847	6.066	6.184	6.302	6.429	Continuing	Continuing

Note
This program, BA 5, PE 0604602F, project 653133, Quick Sink Development, is a new start.

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 may be utilized to design, develop, integrate, and test weapon system and/or component level architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide outcomes.

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 included all necessary 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, and 0605898F

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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>I Armament/Ordnance Development</i>

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)	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>
Previous President's Budget	5.417	7.253	0.000	0.000	0.000
Current President's Budget	5.304	7.174	96.762	0.000	96.762
Total Adjustments	-0.113	-0.079	96.762	0.000	96.762
• 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	-0.113	-0.079			
• Other Adjustments	0.000	0.000	96.762	0.000	96.762

Change Summary Explanation

The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
653133: Bombs & Fuzes	0.000	1.163	1.571	90.915	0.000	90.915	42.272	31.903	1.737	1.773	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604602F, project 653133, Quick Sink Development, is a new start.

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 War 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.

- 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.

- Quick Sink Development - Quick Sink, provides a low-cost, air-delivered solution for defeating surface vessels. This system utilizes a modified Joint Direct Attack Munition (JDAM) equipped with enhancements to existing technologies, including a seeker, cavitator, and explosive fill to counter evolving adversary threats. This innovative combination allows for the precise targeting of both stationary and moving maritime targets, providing a rapid and flexible response to emerging maritime threats, and significantly enhancing the U.S. Air Force's counter-maritime capabilities.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 DoW 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 DoW, 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 included all necessary 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, and 0605898F				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Munitions Materiel Handling Equipment (MMHE)		1.163	1.225	1.24
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 2026 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 2027 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				

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 to FY 2027 Increase/Decrease Statement: Increase from FY26 to FY27 is a result of normal inflation.				
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 2026 Plans: 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. FY 2027 Plans: 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. FY 2026 to FY 2027 Increase/Decrease Statement: Increase from FY26 to FY27 is a result of normal inflation.		0.000	0.346	0.374
Title: Quick Sink Development Description: Quick Sink, provides a low-cost, air-delivered solution for defeating surface vessels. This system utilizes a modified Joint Direct Attack Munition (JDAM) equipped with enhancements to existing technologies, including a seeker, cavitator, and explosive fill to counter evolving adversary threats. This innovative combination allows for the precise targeting of both stationary and moving maritime targets, providing a rapid and flexible response to emerging maritime threats, and significantly enhancing the U.S. Air Force's counter-maritime capabilities. FY 2026 Plans:		-	0.000	89.300

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027
No funding received in FY 2026.												
FY 2027 Plans: Continued development of warhead and Long Wave Infrared seeker. Execution of test and integration plan; including the build of test assets/components.												
FY 2026 to FY 2027 Increase/Decrease Statement: New start in FY2027 for the development of warhead and Long Wave Infrared seeker. Execution of test and integration plan; including the build of test assets/components.												
Accomplishments/Planned Programs Subtotals										1.163	1.571	90.915
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• PAAF 01 Line Item 356120: Fuzes	70.060	125.721	141.149	-	141.149	132.158	135.116	138.215	140.980	Continuing	Continuing	
• PAAF 01 Line Item 352010: Cartridges	98.427	126.077	132.508	-	132.508	130.057	132.452	134.999	137.639	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
- Munitions Materiel Handling Equipment (MMHE) project activities are performed in-house with limited technical and analysis contract support.												
- 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.												
- QuickSink is a low-cost method for neutralizing surface vessels using a modified, air-delivered munition.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.000	Mar 2025	0.100	Mar 2026	0.100	Mar 2027	-		0.100	Continuing	Continuing	-
MMHE - Prototypes	Various	Prototype Fabrication Shop : Eglin AFB, FL	-	0.936	Jan 2025	0.795	Jan 2026	0.884	Jan 2027	-		0.884	Continuing	Continuing	-
Quick Sink Seeker Development and JDAM Integration	SS/CPAF	Boeing : Saint Louis, MO	-	-		-		89.300	Apr 2027	-		89.300	Continuing	Continuing	-
Subtotal			-	0.936		0.895		90.284		-		90.284	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.009	Nov 2024	0.050	Nov 2025	0.020	Nov 2026	-		0.020	Continuing	Continuing	-
Subtotal			-	0.009		0.050		0.020		-		0.020	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.000	Nov 2024	0.050	Nov 2025	0.030	Nov 2026	-		0.030	Continuing	Continuing	-
Emerging Technology - Test Wing	PO	96 TW : Eglin AFB, FL	-	0.000	Nov 2024	0.046	Nov 2025	0.074	Mar 2027	-		0.074	Continuing	Continuing	-
Subtotal			-	0.000		0.096		0.104		-		0.104	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 2024	0.200	Dec 2025	0.200	Mar 2027	-		0.200	Continuing	Continuing	-
MMHE - PMA	Various	Various : Eglin AFB, FL	-	0.218	Jan 2025	0.330	Jan 2026	0.307	Jan 2027	-		0.307	Continuing	Continuing	-
Subtotal			-	0.218		0.530		0.507		-		0.507	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.163		1.571		90.915		-		90.915	Continuing	Continuing	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 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0604602F / Armament/Ordnance Development					653133 / Bombs & Fuzes			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Quick Sink Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2025	4	2031
IM and Emerging Technologies	1	2025	4	2031
Quick Sink Development	3	2027	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
655361: Stores-Aircraft Interface	0.000	4.141	5.603	5.847	0.000	5.847	6.066	6.184	6.302	6.429	Continuing	Continuing
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 Department of War Acquisition Transformation Strategy mandates Open Systems Architectures in all acquisition programs. UAI democratizes implementation of open architecture across the DAF, accelerating fielding of armament capabilities, breaking vendor lock and increasing return on investment for cost, agility, interoperability, and lethality operational outcomes. UAI has a direct impact on how quickly the service can implement the DoW Open Systems Architecture Initiative. 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, architecture integration activities, 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 Program Element (PE), the ASE group will continue execution of these related activities under the following PEs: 0305206F/Airborne Reconnaissance Systems (672003/Sensor Open Systems Architecture), and 0605056F/Open Architecture Management (656060/Standards Management)

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 655361 / Stores-Aircraft Interface		
Funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.				
Funding may be used to resolve Diminishing Manufacturing Sources and Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect schedule, and engineering efforts.				
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.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Universal Armament Interface (UAI) Development		4.141	5.603	5.847
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.				
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 - Fully transition to 6-month release cadence to enable expedited capability delivery				
FY 2027 Plans: - Continue technical maturation of the UAI standard - Implement and continue development of LRKC configuration specifications for data links - Mature the Common Open Armament Interface following full UAI and CFW integration - Continuously adapt the DAF-owned open armament standards to meet the needs of the adopting weapons systems platforms				

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
- Increase model-based system engineering (MBSE) products within open standards for rapid digital integration by adopting platforms <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Increase from FY26 to FY27 is a result of normal inflation			
Accomplishments/Planned Programs Subtotals		4.141	5.603
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.			
D. Acquisition Strategy			
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. As of August 2025, the ASE group has developed an updated acquisition strategy and awarded a contract vehicle to curate, mature, integrate, and field several open architecture efforts, including UAI. This contract vehicle leverages technical expertise via a modular contracting approach that allows for vendor on and offboarding every six months based on performance and phase objectives. This new acquisition strategy consolidates management of several prior bespoke efforts to drive integration by design across architecture efforts to ease adoption in legacy and future DAF systems. Lastly, this BPAC funds analysis and support via other Government Agencies, Federally Funded R&D Centers, and advisory/assistance contractors.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnan ce Development				Project (Number/Name) 655361 / Stores-Aircraft Interface					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.061	Nov 2024	5.508	Nov 2025	5.748	Jan 2027	-		5.748	Continuing	Continuing	-
Subtotal			-	4.061		5.508		5.748		-		5.748	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.080	Jun 2025	0.095	Jun 2026	0.099	Jan 2027	-		0.099	Continuing	Continuing	-
Subtotal			-	0.080		0.095		0.099		-		0.099	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	4.141		5.603		5.847		-		5.847	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development		Project (Number/Name) 655361 / Stores-Aircraft Interface	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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	2025	4	2031
Platform-Store Interface Control Document Update and Deliveries	1	2025	4	2031
Common Flexible Weapon (CFW) Interface Control Document (ICD) Incorporation	1	2025	4	2027
System Integration Lab (SIL) Certification Tool (CT) software update and release	1	2025	4	2031
Mission Planning (MP) software update and release	1	2025	4	2031
Weapon and Aircraft Development/Sustainment Activities (e.g., F-47, B-21, JDAM, etc.)	1	2025	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	3.427	3.502	3.599	0.000	3.599	3.726	3.798	3.871	3.950	Continuing	Continuing
653166: Joint Smart Munitions Test and Evaluation	0.000	3.427	3.502	3.599	0.000	3.599	3.726	3.798	3.871	3.950	Continuing	Continuing
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 (JTTCG) 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 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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		3.427	3.502	0.000	0.000	0.000
Current President's Budget		3.427	3.502	3.599	0.000	3.599
Total Adjustments		0.000	0.000	3.599	0.000	3.599
• 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	3.599	0.000	3.599
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Project Chicken Little (PCL)				3.427	3.502	3.599
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.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 2027 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. Expand Acoustic Week into Chicken Little UAS/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 to FY 2027 Increase/Decrease Statement: Increase is due to general inflation.				
Accomplishments/Planned Programs Subtotals		3.427	3.502	3.599

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 2024	0.800	Nov 2025	0.800	Nov 2026	-		0.800	Continuing	Continuing	0.800
Subtotal			-	0.800		0.800		0.800		-		0.800	Continuing	Continuing	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.527	Nov 2024	2.592	Nov 2025	2.679	Nov 2026	-		2.679	Continuing	Continuing	-
Subtotal			-	2.527		2.592		2.679		-		2.679	Continuing	Continuing	N/A
Remarks 96th Test Wing (96 CTG, 46 TS) is the Program Office which conducts inhouse testing.															
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.100	Nov 2024	0.110	Nov 2025	0.120	Nov 2026	-		0.120	Continuing	Continuing	-
Subtotal			-	0.100		0.110		0.120		-		0.120	Continuing	Continuing	N/A
Remarks 96th Test Wing (96 CTG, 46 TS) is the Program Office which conducts in house testing.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	3.427		3.502		3.599		-		3.599	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force							Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026							
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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.																												
FY25 Acoustic Week																												
FY26 Sensor Week																												
FY27 UAS/Acoustic Week																												
FY28 Sensor Week																												
FY29 UAS/Acoustic Week																												
FY30 Sensor Week																												
FY31 UAS/Acoustic Week																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604604F / <i>Submunitions</i>	Project (Number/Name) 653166 / <i>Joint Smart Munitions Test and Evaluation</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Project Chicken Little; JMT&E</i>				
Target/warhead evaluation/analysis, signature test, captive carry flight tests.	1	2025	4	2031
FY25 Acoustic Week	1	2025	3	2025
FY26 Sensor Week	1	2026	4	2026
FY27 UAS/Acoustic Week	1	2027	3	2027
FY28 Sensor Week	1	2028	4	2028
FY29 UAS/Acoustic Week	1	2029	3	2029
FY30 Sensor Week	1	2030	4	2030
FY31 UAS/Acoustic Week	1	2031	3	2031

Note

UAS = Unmanned Aerial Systems

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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

COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	22.977	23.235	19.348	0.000	19.348	20.124	20.536	20.925	21.348	Continuing	Continuing
652895: Civil Engineering Readiness	0.000	20.923	21.458	17.887	0.000	17.887	18.608	18.990	19.351	19.742	Continuing	Continuing
654910: Aeromedical Readiness	0.000	2.054	1.777	1.461	0.000	1.461	1.516	1.546	1.574	1.606	Continuing	Continuing

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.

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	23.635	23.474	0.000	0.000	0.000
Current President's Budget	22.977	23.235	19.348	0.000	19.348
Total Adjustments	-0.658	-0.239	19.348	0.000	19.348
• 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	-0.658	-0.239			
• Other Adjustments	0.000	0.000	19.348	0.000	19.348

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
Change Summary Explanation The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.		

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
652895: Civil Engineering Readiness	0.000	20.923	21.458	17.887	0.000	17.887	18.608	18.990	19.351	19.742	Continuing	Continuing
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.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2025	FY 2026	FY 2027	
Title: Airbase Technologies									7.418	8.303	5.347	
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 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, 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 2027 Plans:												
Continue to innovate and deliver advanced civil engineer material technologies for resilient infrastructure, warfighter protection, and resource optimization including additive manufacturing technologies and systems for Air Force infrastructure and CE												

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
applications. Develop and test advanced composites for infrastructure and runways, next-generation fire extinguishment agents and detection systems, technologies to protect warfighters from hazardous scenarios, and solutions for resource limitations, waste reuse, and reduction in theater. Test & evaluate novel expeditionary energy, utility, and infrastructure technologies, energy storage systems, and the incorporation of renewable energy systems with USAF assets. Replace/repair critical RDT&E lab equipment and fund program management support, RDT&E IT systems, and software. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Increase for development of equipment, materials & processes that optimize civil engineer operations.			
<i>Title:</i> Airfield Damage Repair <i>Description:</i> 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. <i>FY 2026 Plans:</i> 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. <i>FY 2027 Plans:</i>		8.261	7.910
			7.215

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Continue to accelerate and transition rapid airfield damage recovery (ADR) solutions through robust RDT&E. Advance small unmanned aircraft systems (SUAS), mobile towers, handheld platforms, and automated damage detection software with improved sensors for faster and more accurate damage and UXO detection. Explore new platforms to meet future sensor requirements. Develop, test, and evaluate unmanned systems for airfield damage repair and base infrastructure maintenance. Develop, test, and transition materials and equipment sets for rapid runway repair after battle damage. Develop tactics, techniques, and procedures for manned and unmanned Rapid Explosive Hazard Mitigation (REHM) systems. Enhance blast resistance for heavy equipment, advance stand-off UXO destruction methods, and improve Subsurface Location, Access, and Mitigation (SLAM) of buried UXO. Develop and test new materials and techniques using indigenous resources to minimize reliance on shipping and logistics while achieving equal or greater strength compared to current ADR methods. Develop and test new systems to provide similar or greater repair speeds with smaller logistic footprints. Prioritize equipment testing and operation in extreme weather conditions and develop repair methods that support Agile Combat Employment (ACE) operations and strategies. FY 2026 to FY 2027 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 airfields.				
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 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		5.244	5.245	5.325

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026
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 2025	FY 2026	FY 2027
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. <i>FY 2027 Plans:</i> Continue to enhance infrastructure and personnel protection against evolving threats. Upgrade and modernize personnel protective bunkers and Air Force infrastructure hardening standards. Conduct RDT&E of new, lighter, and less expensive protection materials. Test and evaluate technologies like inflatable aircraft shelters and infrastructure camouflage, concealment, and deception technologies. Test and evaluate technologies against penetrating munitions (e.g., cruise missiles) and improve expedient sheltering. Provide design and technical assistance for fielding the next generation expedient shelter systems and test selective hardening systems. Continue R&D of aviation firefighting technologies for AFFF treatment/replacement, clean firefighting agents, and aviation firefighting equipment. Continue R&D of Explosive Ordnance Disposal (EOD) technologies for UXO neutralization and transition into service. Conduct bench and lab-scale testing of new energy and utilities technologies before scaling up to full-scale test & evaluation. Conduct field demonstrations of innovative expeditionary water and waste disposal systems for Arctic environments. Test & evaluate commercial technologies/systems, including: expeditionary shelters, environmental conditioning systems, hybrid renewable energy systems, energy storage, power generation and management systems, and water/waste stream processing systems. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Increase for development of more resilient and rapidly deployable protective and expeditionary infrastructure.			
Accomplishments/Planned Programs Subtotals	20.923	21.458	17.887

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

<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOC</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 04 Line Item 845100A: Contingency Operations - Engineering and EOD Equipment	167.773	171.299	-	-	-	-	-	-	-	Continuing	Continuing
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.											

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support	Project (Number/Name) 652895 / Civil Engineering Readiness
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 DoW 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 2027 Air Force **Date:** April 2026

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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	4.855	Nov 2024	3.737	Nov 2025	3.245	Nov 2026	-		3.245	Continuing	Continuing	-
Airfield Damage Repair (ADR) & Airfield Pavement Technologies	Various	AFCEC : Tyndall AFB, FL	-	3.086	Nov 2024	2.742	Nov 2025	2.625	Nov 2026	-		2.625	Continuing	Continuing	-
EOD & Robotics Technologies	C/CPFF	Torch Technologies : Huntsville, AL	-	2.564	Nov 2024	2.572	Nov 2025	2.265	Nov 2026	-		2.265	Continuing	Continuing	-
RADAS Integration	C/CPFF	Torch Technologies : Huntsville, AL	-	0.951	Nov 2024	0.937	Nov 2025	0.792	Nov 2026	-		0.792	Continuing	Continuing	-
Airfield Damage Repair Software Development and Integration	C/FFP	DS2 : Crestview, FL	-	1.660	Nov 2024	1.659	Nov 2025	1.533	Nov 2026	-		1.533	Continuing	Continuing	-
Airfield Protection (AP) Infrastructure Hardening	C/CPFF	Battelle : Panama City, FL	-	3.121	Nov 2024	2.645	Nov 2025	2.575	Nov 2026	-		2.575	Continuing	Continuing	-
Aviation Firefighting Technologies	C/CPFF	Battelle : Panama City, FL	-	0.902	Nov 2024	1.300	Nov 2025	1.500	Nov 2026	-		1.500	Continuing	Continuing	-
Energy & Utilities	C/CPFF	Battelle : Panama City, FL	-	1.221	Nov 2024	1.300	Nov 2025	1.250	Nov 2026	-		1.250	Continuing	Continuing	-
Subtotal			-	18.360		16.892		15.785		-		15.785	Continuing	Continuing	N/A

Remarks

Airfield Pavements & Technologies was rolled into Airfield Damage Repair as these are a joint effort.

Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.506	Nov 2024	3.051	Nov 2025	0.802	Nov 2026	-		0.802	Continuing	Continuing	-
Subtotal			-	1.506		3.051		0.802		-		0.802	Continuing	Continuing	N/A

Remarks

PMA includes travel and supplies to support CE Readiness RDT&E activities.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
3600 / 5						PE 0604617F / Agile Combat Support				652895 / Civil Engineering Readiness					
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.057	Apr 2025	1.515	Apr 2026	1.300	Apr 2027	-		1.300	Continuing	Continuing	-
Subtotal			-	1.057		1.515		1.300		-		1.300	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	20.923		21.458		17.887		-		17.887	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force	Date: April 2026

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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
RADAS Development, Test & Evaluation																												
ADR Simulator & Synthetic Environment																												
ATAK Sensor Integration and Drone Detection																												
Airfield Mitigation and Recovery Robotics																												
AFFF Disposal and Mitigation Technologies																												
Civil Engineering Projects for Sustained Airbase Operations																												
Airfield Protection - Advanced Hardening RDT&E																												
Hasty Aircraft Inflatable Large Shelter (HAILS)																												
AFFF Replacement Agent Test & Evaluation																												
PFAS Destruction Technology																												
Arctic Capable Shelter																												
Automated Heavy Machinery																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2025	4	2027
ADR Robotic In-seat Appliques Phase 2	1	2025	2	2026
RADAS Development, Test & Evaluation	1	2025	4	2026
ADR Simulator & Synthetic Environment	1	2025	4	2029
ATAK Sensor Integration and Drone Detection	1	2025	4	2030
Airfield Mitigation and Recovery Robotics	1	2025	3	2027
AFFF Disposal and Mitigation Technologies	1	2025	4	2026
Civil Engineering Projects for Sustained Airbase Operations	1	2025	1	2026
Airfield Protection - Advanced Hardening RDT&E	1	2025	4	2027
Hasty Aircraft Inflatable Large Shelter (HAILS)	1	2025	4	2030
AFFF Replacement Agent Test & Evaluation	1	2025	4	2026
PFAS Destruction Technology	1	2025	4	2027
Arctic Capable Shelter	1	2025	4	2027
Automated Heavy Machinery	1	2025	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
654910: Aeromedical Readiness	0.000	2.054	1.777	1.461	0.000	1.461	1.516	1.546	1.574	1.606	Continuing	Continuing
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.

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

	FY 2025	FY 2026	FY 2027
Title: Aeromedical Equipment Testing/Studies/Minor Development	2.054	1.777	1.461
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 2026 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
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 2027 Plans:</i> Funding supports aeromedical modernization efforts optimizing human performance research, 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 to FY 2027 Increase/Decrease Statement:</i> Slight increase from FY26 due to inflation			
Accomplishments/Planned Programs Subtotals		2.054	1.777
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	AFRLCMC : Wright-Patterson AFB, OH	-	1.866	Mar 2025	1.497	May 2026	0.461	Apr 2027	-		0.461	0.000	3.824	-
Subtotal			-	1.866		1.497		0.461		-		0.461	0.000	3.824	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		-		0.500	Mar 2027	-		0.500	0.000	0.500	-
Subtotal			-	-		-		0.500		-		0.500	0.000	0.500	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		-		0.100	Apr 2027	-		0.100	0.000	0.100	-
Subtotal			-	-		-		0.100		-		0.100	0.000	0.100	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	AFRLCMC : Wright-Patterson AFB, OH	-	0.188	Mar 2026	0.280	Mar 2026	0.400	Feb 2027	-		0.400	0.000	0.868	-
Subtotal			-	0.188		0.280		0.400		-		0.400	0.000	0.868	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support					Project (Number/Name) 654910 / Aeromedical Readiness			
	Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	2.054		1.777		1.461		-		1.461	0.000	5.292	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 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 5					PE 0604617F / Agile Combat Support			654910 / Aeromedical Readiness				

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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
<i>Aeromedical Readiness RDTE Efforts</i>				
Aeromedical Equipment Testing/Studies/Minor Development	1	2026	4	2031
Endovascular Aortic Control (EVAC)	3	2025	3	2026
Digital Engineering Investment	4	2026	4	2028
<i>Multi-Modal Threat Detection and Mitigation</i>				
Multi-Modal Threat Detection and Mitigation	3	2026	4	2027

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 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	23.741	20.302	21.328	0.000	21.328	22.173	22.669	23.030	23.496	Continuing	Continuing
65412A: Life Support Systems	0.000	23.741	20.302	21.328	0.000	21.328	22.173	22.669	23.030	23.496	Continuing	Continuing
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 mission 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; 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 included all necessary 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, and 0605898F.

In direct support of Secretary of War direction to increase readiness across the DoW, efforts within this program element will be prioritized based on the National Defense Authorization Act (NDAA), USAF Force Design, Agile Combat Employment (ACE), and the Defense Planning Guide (DPG). These efforts will support work and collaboration efforts across the Combat Readiness Directorate in PE's 780651F, 71212F, 72833F, 64706F, 65827F, 22834F, 52834F, 28031F, 41135F and 27521F to increase readiness across the Air Force Enterprise

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 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		24.502	20.542	0.000	0.000	0.000
Current President's Budget		23.741	20.302	21.328	0.000	21.328
Total Adjustments		-0.761	-0.240	21.328	0.000	21.328
• 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		-0.761	-0.240			
• Other Adjustments		0.000	0.000	21.328	0.000	21.328
Change Summary Explanation						
FY26 adjustment is Sec 8151 SBIR Reduction of 240K						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Aircrew Performance Studies/Technology Projects, Minor Development Efforts and Aircrew Accommodation Efforts				13.031	8.971	7.676
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, aircrew body armor, oxygen masks, Modular Aircrew Restraint Back and Leg Support (MARBLES). Aircrew Laser Eye Protection - Technical Insertion (ALEP-TI), Next Generation Fixed Wing Helmet (NGFWH), Parachutes 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						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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) other users and MAJCOMs seek to incorporate these STF assets into their inventory. Funds may be used to address associated emerging aircrew, ground crew, and egress requirements, and for program management activities. 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 2027 Plans: Continuing development/test efforts on aircrew laser eye protection - technical insertion (ALEP-TI), next generation fixed wing helmet, next generation nuclear flash blindness technology, improvement of parachute/floatation devices and survival system. FY 2026 to FY 2027 Increase/Decrease Statement: Decrease due to Nuclear flash Blindness Program moving toward production in FY27.		FY 2025	FY 2026	FY 2027
Title: Next Generation Ejection Seat Description: This effort includes the design, development, and qualification of an upgraded ejection seat escape system for ACES II-equipped aircraft. The Next Generation Ejection Seat (NGES) safely accommodates greater variation in aircrew minimum/maximum weights, a minimum aircrew sitting height of 31 inches including the use of Helmet Mounted Displays, and delivers seat modularity to decreases maintenance costs. It reduces the risk of injuries to the arms and legs (especially due to limb flail), head, neck, and spinal column as well as decreases parachute landing fall injuries throughout the entire ejection event. This effort also includes aircraft integration activities. FY 2026 Plans: Conclude F-15 seat development and testing and initiate the F-15 Integration phase. FY 2027 Plans: Continuing work on the F-15 Integration Contract and Award F-16 Engineering and Manufacturing Development (EMD) Contract. FY 2026 to FY 2027 Increase/Decrease Statement: Ramp up of F-16 EMD efforts and F-15 integration activities in FY27		10.710	11.331	13.652
Accomplishments/Planned Programs Subtotals		23.741	20.302	21.328

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026	
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>						
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 04 Line Item 842990: <i>Items Less Than \$5 Million (Safety and Rescue Equipment)</i>	78.663	51.763	54.897	-	54.897	56.045	57.114	58.143	59.305	Continuing	Continuing
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	7.883	Jan 2025	1.376	Jan 2026	4.906	Jan 2027	-		4.906	Continuing	Continuing	-
Next Generation Ejection Seat (NGES)	SS/CPFF	Collins Aerospace : Colorado Springs, CO	-	8.599	Dec 2024	9.028	Dec 2025	11.252	Dec 2026	-		11.252	Continuing	Continuing	-
Subtotal			-	16.482		10.404		16.158		-		16.158	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.111	Oct 2024	2.364	Oct 2025	2.400	Oct 2026	-		2.400	Continuing	Continuing	-
Subtotal			-	2.111		2.364		2.400		-		2.400	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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, NGFWH, etc.)	Various	Various : Various, NV	-	2.136	Jan 2025	1.939	May 2026	1.600	Feb 2027	-		1.600	Continuing	Continuing	-
Subtotal			-	2.136		1.939		1.600		-		1.600	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.012	Oct 2024	5.595	Oct 2025	1.170	Oct 2026	-		1.170	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			-	3.012		5.595		1.170		-		1.170	Continuing	Continuing	N/A
Remarks															
PMA Description: Program Management Support and Travel.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	23.741		20.302		21.328		-		21.328	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 5					PE 0604706F / Life Support Systems					65412A / Life Support Systems									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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
Life Support Systems RDTE Efforts				
Aircrew Performance Aircrew Laser Eye Protection - Technical Insertion (ALEP-TI)	1	2025	3	2028
Aircrew Performance/ Equipment	1	2025	4	2031
Next Generation Fixed Wing Helmet	1	2025	4	2026
Next Generation Ejection Seat	1	2025	4	2031
Next Gen Nuclear Flash Blindness Protection	1	2025	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	154.258	147.587	132.783	0.000	132.783	46.743	50.422	42.347	43.206	Continuing	Continuing
652286: Combat Training Range Equipment	0.000	154.258	147.587	132.783	0.000	132.783	46.743	50.422	42.347	43.206	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY25 was rescinded 1.7 million and is not reflected in this budget documentation

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 training radars, communication jammers, command and control and debrief capability, and instrumentation equipment. The portfolio will also research and develop analytical and information management, data management, digital environments, networks, facilities, and security infrastructure. All development efforts support USAF aircraft for Joint, Coalition, and Live Virtual Constructive (LVC) training events.

ADVANCED RADAR THREAT SYSTEM Variant 3 (ARTS- V3):

ARTS-V3 is developing the most advanced ground-based radars in the US inventory using digital active electronically scanned radar technology used to simulate the latest foreign peer adversary 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 5th/6th generation aircraft (F-35, B-21, F-47). ARTS-V3 systems are critical for Department of the Air Force test capabilities for validation of advanced airpower capabilities against threat-representative radar systems and validation of models used for the Joint Simulation Environment (JSE).

ARTS Technology Development:

Address the affordability training gap with government-owned, software-defined mobile emitters that increase threat density and realism of an integrated air defense network. Efforts include developing a technical data package, building prototypes, maturing production capabilities, and transitioning items for production.

LIVE MISSION OPERATIONS CAPABILITY (LMOC): LMOC is a government-owned command system serving as the training range equivalent of an Air Operations Center (AOC). Connecting all CAF ranges through a secure, dedicated network backbone, LMOC utilizes a long-term, modular, and scalable architecture to enable real-time mission planning, execution, and debriefing. This multi-domain, multi-security level environment facilitates the integration of 4th/5th/6th generation live-synthetic training by supporting blue/red/white force cells from pre-event preparations through live monitoring to post-event debriefing and data storage. LMOC features provisions for future Live, Virtual, and Constructive (LVC)/Blended and Joint interoperability test and training requirements enhancing warfighter capabilities.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
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 Independent Levels of Security (MILS) 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 FY28.						
This program element included all necessary 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, and 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		160.783	139.499	0.000	0.000	0.000
Current President's Budget		154.258	147.587	132.783	0.000	132.783
Total Adjustments		-6.525	8.088	132.783	0.000	132.783
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	10.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		-0.800	0.000			
• SBIR/STTR Transfer		-5.725	-1.912			
• Other Adjustments		0.000	0.000	132.783	0.000	132.783
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 652286: Combat Training Range Equipment						
Congressional Add: Mobile Live-Fire Targeting System						
Congressional Add: Modern Threat Simulator						
Congressional Add Subtotals for Project: 652286						
Congressional Add Totals for all Projects						
Change Summary Explanation						
The FY2025 adjustment of -6.525 million; -5.725 million reduction for SBIR and a -.800 million BTR reprogramming for other Air Force priorities.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
FY2026 adjustments of \$8.088 million for Congressional adds of +\$4.0 million for mobile live-fire testing system for training and +\$6.0 million for modern threat simulator and -\$1.912 million for Sec 8151 SBIR/STTR						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Advanced Radar Threat System-Variant 3 (ARTS-V3)		117.791	111.062	112.208	0.000	112.208
Description: ARTS-V3 program has designed the US's most advanced ground-based radars. The program continues to develop, build, and test the advanced Surface-to-Air Missile (SAM) radar threat systems. ARTS-V3 will replicate strategic/tactical threats at the fidelity necessary for 5th and 6th generation multi-domain platform engagements. The ARTS-V3 requirement is to develop a modular radar threat system that has a rapid software development and integration capability 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) and prototypes, development of command-and-control software, developmental/operational test, digital engineering, pre-production activities, and efforts focused on integrating ARTS-V3 into live virtual constructive architectures and test and training ranges.						
FY 2026 Plans: The focus of FY2026 is building the Production Representative Article (PRA) and conducting combined developmental/operation test activities. Activities will include but are not limited to remaining hardware purchases, fabrication of radar sub-assemblies and higher level assemblies, component-level and sub-system level testing, continued development of the command & control software, integration activities with the command & control software, software-defined threat profile development/integration, and engineering activities to reduce integration risk during open-air full system testing in FY2027.						
FY 2027 Base Plans: FY2027 focuses on completing manufacture, integration, test, and delivery of the ARTS-V3 X-band in FY2027 and C-band in FY2028 in order to enable production start in FY2028. Integration efforts will focus on open air testing and achieving IOC at the Nevada Test and Training Range.						
FY 2027 OOC Plans: N/A						
FY 2026 to FY 2027 Increase/Decrease Statement:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Nominal funding increase to support program office estimate.						
Title: Advanced Radar Threat System Tech Development Description: The ARTS Tech Development Program refines the designs, develops technical data packages, builds prototype systems, and matures systems for production. Efforts include but are not limited to research, studies, technology data package development, software development, engineering, and manufacturing medium-cost radar emitters. FY 2026 Plans: In FY2026, 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. FY 2027 Base Plans: In FY2027, the program office is continuing 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. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: Nominal increase due to inflation.		7.737	2.336	2.637	0.000	2.637
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/6th generation aircraft and aircrew. FY 2026 Plans:		10.206	8.978	6.466	0.000	6.466

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
LMOC utilizes the agile software acquisition pathway and will continue iterative development to transition the LMOC Platform to a higher classification level capability that meets training and test requirements of USAF 4th and 5th Gen combat systems and communities. This includes the 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 2027 Base Plans: LMOC is continuing to utilize the agile software acquisition pathway and will continue iterative development to transition the LMOC Platform to a higher classification level capability by further developing and accrediting the Prism solution for Special Access Required programs, thereby meeting training and test requirements of USAF 4th and 5th Gen combat systems and communities. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: FY2027 decrease due to results in software development delays required to meet Air Combat Command security architecture and multi-level security requirements.						
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 Independent Levels of Security (MILS) 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 2026 Plans: Continued funding of Non-Recurring Engineering (NRE) to complete F-15/F-16 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		18.524	15.211	11.472	0.000	11.472

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
application ECP package for inclusion in the TCTS II/P6CTS software baseline. The program anticipates IOC at NTTR by FY2028.						
FY 2027 Base Plans: Funding continues support of the P6 Initial Operating Capability (IOC). By FY2028, there will be continued aircraft integration development on F-15/F-16 P6 requirements at Nevada Test and Training Range (NTTR). Funding furthers development of Open-Air Battlespace Shaping (OABS) simulation integration, to include an internal mount solution through Federal Laboratories (FedLAB). All updates will be integrated into the TCTS II/ P6CTS software baseline managed by the Navy (PMA-205).						
FY 2027 OOC Plans: N/A						
FY 2026 to FY 2027 Increase/Decrease Statement: FY2027 \$3.7M decrease due to support for other Air Force higher priorities.						
Accomplishments/Planned Programs Subtotals		154.258	137.587	132.783	0.000	132.783
		FY 2025	FY 2026			
Congressional Add: Mobile Live-Fire Targeting System		0.000	4.000			
FY 2025 Accomplishments: N/A						
FY 2026 Plans: Congressional add to develop Mobile Live-Fire Targeting System for training ranges. Plan to scope requirements with end user and award a contract.						
Congressional Add: Modern Threat Simulator		0.000	6.000			
FY 2025 Accomplishments: N/A						
FY 2026 Plans: Congressional add for a Modern Threat Simulator. Plan to scope requirements with end user and award a contract.						
Congressional Adds Subtotals		0.000	10.000			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 03 Line Item 834190: Combat Training Ranges	286.432	158.396	94.378	-	94.378	256.030	247.297	245.409	249.856	0.000	1,537.798
• OPAF 05 Line Item 861900: Spares and Repair Parts	0.761	6.935	7.238	-	7.238	13.600	13.854	14.119	14.401	0.000	70.908
• APAF 07 Line Item 000075: Other Production Charges	38.843	31.508	28.295	-	28.295	86.681	47.577	15.838	0.351	0.000	249.093
Remarks											
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.											
Advanced Radar Threat System-Variant 3 (ARTS-V3) executed a full and open-source selection resulting in a competitively awarded contract containing phases for development and production options.											
Live Mission Operations Capability (LMOC) is a Software Pathway program employing 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 to enhance Air Force live training range infrastructure.											
P6CTS overall acquisition strategy leverages 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	114.254	Nov 2024	108.221	Oct 2025	105.388	Oct 2026	-		105.388	0.000	327.863	-
Advanced Radar Threat System Tech Development	Various	Various : Various	-	5.457	May 2026	2.336	May 2026	2.637	Dec 2026	-		2.637	Continuing	Continuing	-
P6 Combat Training System	Various	Various : Various	-	19.148	May 2025	12.191	Jun 2026	7.495	Dec 2026	-		7.495	0.000	38.834	-
Live Mission Operation Capability (LMOC)	Various	Various : Various	-	6.466	Dec 2024	6.112	May 2026	1.025	Dec 2026	-		1.025	0.000	13.603	-
Mobile Live-Fire Targeting System	Various	Various : Various	-	-		4.000	Jun 2026	-		-		-	Continuing	Continuing	-
Modern Threat Simulator	Various	Various : Various	-	-		6.000	Jun 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	145.325		138.860		116.545		-		116.545	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	2.309	Oct 2024	2.121	Oct 2025	2.100	Oct 2026	-		2.100	Continuing	Continuing	-
LMOC (Direct Cite Authority Civ Pay)	Various	Various : Various	-	1.740	Oct 2024	1.866	Oct 2025	1.941	Oct 2026	-		1.941	Continuing	Continuing	-
LMOC EPASS	C/CPAF	Various : Various	-	2.000	Apr 2025	-		1.700	Apr 2027	-		1.700	Continuing	Continuing	-
P6CTS (Direct Cite Authority Civ Pay)	Various	Various : Various	-	1.083	Oct 2025	1.031	Oct 2025	2.500	Oct 2026	-		2.500	Continuing	Continuing	-
P5 Combat Training System	C/CPAF	Various : Various	-	-		0.214	Apr 2026	0.177	Apr 2027	-		0.177	Continuing	Continuing	-
Subtotal			-	7.132		5.232		8.418		-		8.418	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.240	Feb 2025	0.050	Oct 2025	1.500	Oct 2026	0.000		1.500	Continuing	Continuing	-
P6 Combat Training System	C/Various	Not specified. : TBD	-	0.300	Nov 2024	1.775	Apr 2026	1.300	Nov 2026	-		1.300	Continuing	Continuing	-
LMOC	PO	Not specified. : TBD	-	0.273	Feb 2025	1.000	May 2026	1.800	Nov 2026	0.000	May 2027	1.800	Continuing	Continuing	-
P5 Combat Training System	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.813		2.825		4.600		0.000		4.600	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.913	Jul 2025	0.584	Mar 2026	3.100	Mar 2027	-		3.100	Continuing	Continuing	-
Advanced Radar Threat Systems-Variant 3 (Program Support Cost - Other Govt. Costs)	Various	Various : Hill AFB, UT	-	0.075	Oct 2024	0.086	Oct 2026	0.120	Oct 2026	-		0.120	Continuing	Continuing	-
LMOC (Program Support Cost - Contractor Services)	Various	Various : Hill AFB, UT	-	0.000	Jul 2025	-		0.000	Apr 2027	-		0.000	Continuing	Continuing	-
LMOC (Program Support Cost - Other Govt. Costs)	Various	Various : Hill AFB, UT	-	0.000	Dec 2024	-		-		-		-	Continuing	Continuing	-
P5 Combat Training System	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.988		0.670		3.220		-		3.220	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force										Date: April 2026				
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 5					PE 0604735F / Combat Training Ranges					652286 / Combat Training Range Equipment				

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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>

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
P5CTS																												
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																												
Advanced Radar Threat System Tech Development																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026												
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
-- Medium Cost Threat Emitter Request for Proposal (RFP) for Production Representative Article (PRA)																												
-- Medium Cost Threat Emitter PRA Contract Award																												
-- Medium Cost Threat Emitter PRA Development																												
-- Medium Cost Threat Emitter Technical Data Package (TDP) Development																												
Modernization Systems																												
-- Mini-MUTES Upgrade																												
Live Mission Operations Capability (LMOC)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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>				
P5CTS	4	2025	3	2031
P6CTS - Integration on USAF Aircraft	4	2025	2	2029
-- P6CTS - F-15 Aircraft Test & Integration	4	2025	3	2027
Advanced Radar Threat System-Variant 3 (ARTS-V3) System Spec Definition	1	2025	3	2026
-- ARTS-V3 Intelligence Assessment	1	2025	4	2026
-- ARTS-V3 Intelligence Model Development	1	2025	3	2026
Advance Radar Threat System (ARTS-V3) Development	1	2025	2	2027
-- Digital Modeling and Subscale Prototype Efforts	1	2025	3	2026
-- ARTS-V3 Request For Proposal (RFP) for Production Representative Article (PRA)	1	2025	3	2026
-- ARTS-V3 PRA Contract Award	1	2025	2	2027
-- ARTS-V3 PRA Development	3	2025	2	2027
--ARTS-V3 DT-E and OT-E	1	2025	2	2028
--ARTS-V3 Intelligence Model Integration	3	2025	4	2030
--ARTS-V3 Cloud Integration Space and DECSECOPS Pipeline	1	2025	4	2030
--Variable Aperture Digital Radar Command and Control (VADR C2) Application Development	1	2025	4	2027
Advanced Radar Threat System Tech Development	2	2026	4	2028
-- Medium Cost Threat Emitter Request for Proposal (RFP) for Production Representative Article (PRA)	2	2026	2	2026
-- Medium Cost Threat Emitter PRA Contract Award	2	2026	4	2028
-- Medium Cost Threat Emitter PRA Development	3	2026	2	2028
-- Medium Cost Threat Emitter Technical Data Package (TDP) Development	3	2026	2	2028

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026	
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604735F / Combat Training Ranges	Project (Number/Name) 652286 / Combat Training Range Equipment	
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
Modernization Systems		1	2025	4 2026
-- Mini-MUTES Upgrade		1	2025	4 2026
Live Mission Operations Capability (LMOC)		1	2025	4 2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	4,631.266	579.557	446.889	565.679	0.000	565.679	172.220	92.026	22.846	22.906	0.000	6,533.389
657011: LONG RANGE STAND-OFF	4,631.266	579.557	446.889	545.547	0.000	545.547	152.100	71.915	2.729	2.784	0.000	6,432.787
657013: P3I Modernization	0.000	0.000	0.000	20.132	0.000	20.132	20.120	20.111	20.117	20.122	0.000	100.602

Program MDAP/MAIS Code: 489

Note

This program, BA 5, PE 0604932F, project , P3I Modernization, is a new start.

A. Mission Description and Budget Item Justification

The Long Range Stand-Off (LRSO) effort will develop a weapon system to replace the Air Force's Air Launched Cruise Missile (ALCM), operational since 1986. 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.

This program element included all necessary 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, and 0605898F.

This program is conducting Engineering and Manufacturing Development tasks to validate requirements to support Developmental and Operational Testing, and Production Readiness.

Pre-planned Product Improvement (P3I) efforts are necessary to keep LRSO ahead of emerging adversary technologies and are separate from the LRSO Program of Record. Adversary investments in Integrated Air Defense Systems (IADS) and additional territorial gains necessitate these efforts to maintain LRSO's effectiveness beyond the reference used to validate LRSO requirements (30-year service life). Budget year 2027 through the FYDP investments are imperative to key focus areas for P3I efforts based on intel rationale to enhance future survivability.

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 2027 Air Force				Date: April 2026	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604932F I Long Range Standoff Weapon			
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	593.926	606.955	0.000	0.000	0.000
Current President's Budget	579.557	446.889	565.679	0.000	565.679
Total Adjustments	-14.369	-160.066	565.679	0.000	565.679
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-155.739			
• 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	-14.369	-4.327			
• Other Adjustments	0.000	0.000	565.679	0.000	565.679
Change Summary Explanation					
For FY2025, a reduction of -14.369 is due to Small Business Innovative Research (SBIR).					
For FY2026, a reduction of -155.732 is due to Congressional reduction for Program Carryover and -4.327 is due to Sec 8151 Small Business Innovative Research (SBIR)					
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
657011: LONG RANGE STAND-OFF	4,631.266	579.557	446.889	545.547	0.000	545.547	152.100	71.915	2.729	2.784	0.000	6,432.787
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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.

FY 2025 funds continued to design, develop, integrate and test the LRSO weapon system through the EMD contract and continued Developmental Test and Evaluation program execution on B-52. FY 2026 funds continued to design, develop, integrate and test the LRSO weapon system through the EMD contract and continue Developmental Test and Evaluation program execution on B-52. FY 2027 funds continued to design, develop, integrate and test the LRSO weapon system through the EMD contract and complete the Developmental Test and Evaluation program execution on B-52. Milestone C is planned for 3QFY2027.

Funds may be used to address emerging or short notice Diminishing Manufacturing Sources and Material Shortage (DMSMS) and supply chain issues.

This program element included all necessary 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, and 0605898F.

The program is conducting Engineering and Manufacturing Development (EMD) tasks to validate requirements to support Developmental and Operational Testing, and Production Readiness.

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

	FY 2025	FY 2026	FY 2027
Title: Long Range Stand-Off (LRSO) Weapon Development	390.087	258.308	347.761
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 2026 Plans: The program will continue to design, develop, integrate and test the LRSO weapon system through the EMD contract. During FY2026, the program plans to continue Developmental Test and Evaluation program execution on B-52. Related FY2026 Activities include, but are not limited to, the following:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>		Project (Number/Name) 657011 / <i>LONG RANGE STAND-OFF</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
- continue reliability growth, manufacturability, and maintainability maturation actions for formal Developmental 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 Engineering and Manufacturing Development (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 2027 Plans: The program will continue to design, develop, integrate and test the LRSO weapon system through the EMD contract. During FY2027, the program plans to complete Developmental Test and Evaluation program execution on B-52. Related FY2027 Activities include, but are not limited to, the following: - continue reliability growth, manufacturability, and maintainability maturation actions for formal Developmental Test and Evaluation activities.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604932F / <i>Long Range Standoff Weapon</i>	Project (Number/Name) 657011 / <i>LONG RANGE STAND-OFF</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
<i>FY 2026 Plans:</i> During FY2026, the program plans to continue Developmental Test and Evaluation program execution on B-52. Related FY2026 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 Department of War (DoW), 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. - continue to conduct joint DoW 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). <i>FY 2027 Plans:</i> During FY2027, the program plans to complete Developmental Test and Evaluation program execution on B-52. Related FY2027 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 DoW, 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.			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
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	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
- 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. - continue to conduct joint DoW 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, 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 to FY 2027 Increase/Decrease Statement: Funding increased due to completion activities of B-52 integration and increased nuclear certification activities.					
Title: Test Support Description: Conduct Test Support activities to support weapon development FY 2026 Plans: The Government formally arranges and funds the use of Government flight test support for ground and flight test activities. During FY2026, the program plans to continue Developmental Test and Evaluation program execution on B-52. Related FY2026 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. - continue coordination with external test agencies in preparation for operational and post-production flight testing. FY 2027 Plans: The Government formally arranges and funds the use of Government flight test support for ground and flight test activities. During FY27, the program plans to complete Developmental Test and Evaluation program execution on B-52. Related FY27 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.			48.823	55.982	60.874

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force							Date: April 2026				
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				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2025	FY 2026	FY 2027		
- 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. - continue coordination with external test agencies in preparation for operational and post-production flight testing.											
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to completion of final Development Test activities and conduction of Integrated Test-Reliability Assessment Program prior to Initial Operational Test & Evaluation											
Accomplishments/Planned Programs Subtotals							579.557	446.889	545.547		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• MPAF 02 MLRSO1: Long Range Stand-Off Weapon	210.335	341.372	962.857	-	962.857	1,478.206	2,345.811	2,325.170	2,527.288	1,471.341	11,662.380
Remarks											
D. 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 Request for Proposal (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. Milestone C is planned for 3QFY2027.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force													Date: April 2026		
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	3,607.894	345.218	Oct 2024	220.722	Oct 2025	299.316	Oct 2026	-		299.316	0.000	4,473.150	-
Subtotal			3,607.894	345.218		220.722		299.316		-		299.316	0.000	4,473.150	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	239.573	9.869	Oct 2024	5.886	Oct 2025	2.048	Oct 2026	-		2.048	0.000	257.376	-
All-Up-Round Activities	Various	Various : TBD	232.720	130.778	Oct 2024	126.713	Oct 2025	134.863	Oct 2026	-		134.863	0.000	625.074	-
Subtotal			472.293	140.647		132.599		136.911		-		136.911	0.000	882.450	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	287.587	48.823	Jan 2025	55.982	Jan 2026	60.874	Jan 2027	-		60.874	0.000	453.266	-
Subtotal			287.587	48.823		55.982		60.874		-		60.874	0.000	453.266	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	263.492	44.869	Oct 2024	37.586	Oct 2025	48.446	Oct 2026	-		48.446	0.000	394.393	-
Subtotal			263.492	44.869		37.586		48.446		-		48.446	0.000	394.393	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026				
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			4,631.266	579.557		446.889		545.547		-		545.547	0.000	6,203.259	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 5					PE 0604932F / Long Range Standoff Weapon					657011 / LONG RANGE STAND-OFF									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Initial Operational Test and Evaluation																												
Milestone C Decision																												
Engineering and Manufacturing Development Phase																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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				
Initial Operational Test and Evaluation	1	2028	2	2029
Milestone C Decision	3	2027	3	2027
Engineering and Manufacturing Development Phase	1	2025	2	2027

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-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon				Project (Number/Name) 657013 / P3I Modernization			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
657013: P3I Modernization	0.000	0.000	0.000	20.132	0.000	20.132	20.120	20.111	20.117	20.122	0.000	100.602
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0604932F, project , P3I Modernization, is a new start.

A. Mission Description and Budget Item Justification

Pre-Planned Product Improvement (P3I) Modernization is necessary for LRSO to stay in front of emerging adversary technologies, strategic investments are needed to provide an affordable path to maintain the integrity of the nuclear triad's air delivered component against an advanced mid-to-far term adversary threat LRSO's Modular Open System Architecture (MOSA) lends itself to a P3I approach; leverage on-going technology maturation efforts to mitigate adversary investments in the Integrated Air Defense (IAD) technologies and additional territorial gains posed to threaten LRSO's effectiveness beyond the reference used to validate 30-year service life

FY 2027 funding will be utilized for exploration of technology maturity and investing in the most promising efforts.

This program element included all necessary 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, and 0605898F.

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

	FY 2025	FY 2026	FY 2027
Title: P3I Modernization	-	0.000	20.132
Description: P3I Modernization studies/investments are necessary to keep LRSO in front of emerging adversary technologies.			
FY 2026 Plans: No FY2026 funding			
FY 2027 Plans: FY2027 new start. Efforts will allow the exploration and study of technology maturity and investing in the most promising efforts. The key focus areas of study include but are not limited to, Standoff Capability, Operational Range, Cyber Efforts and Classified efforts.			
FY 2026 to FY 2027 Increase/Decrease Statement: Increase due to being an FY27 New start			
Accomplishments/Planned Programs Subtotals	-	0.000	20.132

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon	Project (Number/Name) 657013 / P3I Modernization
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy Current LRSO design meets/exceeds the established program requirements. LRSO's Modular Open System Architecture (MOSA) lends itself to a P3I approach. Small, early and targeted investments allow LRSO to leverage studies and existing efforts to become stakeholders in on-going technology maturation efforts, allowing to benefit without fully funding the effort alone.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon				Project (Number/Name) 657013 / P3I Modernization					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
P3I Modernization	TBD	Not specified. : TBD	0.000	-		-		19.632	Feb 2027	-		19.632	0.000	19.632	-
Subtotal			0.000	-		-		19.632		-		19.632	0.000	19.632	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Admin	TBD	Not specified. : TBD	0.000	-		-		0.500	Feb 2027	-		0.500	0.000	0.500	-
Subtotal			0.000	-		-		0.500		-		0.500	0.000	0.500	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		-		20.132		-		20.132	0.000	20.132	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon		Project (Number/Name) 657013 / P3I Modernization	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
P3I Modernization																												
Study																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604932F / Long Range Standoff Weapon	Project (Number/Name) 657013 / P3I Modernization

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
P3I Modernization				
Study	2	2027	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	3.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.252
655082: ICBM FUZE SUPPORT	0.000	0.000	3.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.252
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 0498												
Note The ICBM Fuze Modernization Program RDT&E completes in FY2026.												
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 SNL-DA, SNL-PA and 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 (PLM), Thermal Battery Assembly (TBA), Missile Interface Controller Module (MICM), Launch Safety Device (LSD), Terminal Protection Device (TPD), and the Firing Set Interface Module (FSIM) 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. 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 2027 Air Force				Date: April 2026			
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					
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 FY19, the second flight test was performed in FY20, the third in FY22, and the final flight test was completed on 4 June 2024. The program was approved to enter Full Rate Production (FRP) 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 2QFY2026.							
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.							
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget		0.000	3.252	0.000	0.000	0.000	
Current President's Budget		0.000	3.252	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							
No significant changes							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2025	FY 2026	FY 2027
Title: Fuze Design and Development					0.000	0.000	0.000
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.							

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0604933F / <i>ICBM Fuze Modernization</i>							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2025	FY 2026	FY 2027
FY 2026 Plans: N/A												
FY 2027 Plans: N/A												
FY 2026 to FY 2027 Increase/Decrease Statement: N/A												
Title: Weapon System Integration/Systems Engineering										0.000	3.252	0.000
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 2026 Plans: • Complete Sentinel version of MMIII comparative analysis • Complete Fuze Mod Digital Model development • Complete Fuze Mod Model integration for DE efforts • Complete Red Team Performance Assessment of SNL Radar												
FY 2027 Plans: no Activity												
FY 2026 to FY 2027 Increase/Decrease Statement: Activity in this major thrust has been completed.												
Accomplishments/Planned Programs Subtotals										0.000	3.252	0.000
D. Other Program Funding Summary (\$ in Millions)												
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOB</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>	
• MPAF 03 Line Item	144.375	119.376	168.484	-	168.484	124.719	0.985	0.714	0.728	0.000	559.381	
M30FLH: <i>ICBM Fuze Mod</i>												
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 SNL-NM and KCNSC as the production agents. The program is a collaborative effort with the USN reducing total program cost and development time												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
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 five 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.000	-		-		-		-		-	0.000	0.000	753.580
Fuze EMD, Integration and Systems Engineering	Various	Various : Various	0.000	0.000	Nov 2024	3.252	Nov 2025	-		-		-	5.900	9.152	26.504
Fuze Engineering Change Orders	Various	Various : Various	0.000	0.000	Nov 2024	-		-		-		-	0.000	0.000	24.673
Fuze National Security Campus (formerly Kansas City Plant)	MIPR	National Security Campus : Kansas City, MO	0.000	-		-		-		-		-	0.000	0.000	349.098
Fuze Weapon System Integration - ICBM Prime	C/CPAF	Northrop Grumman : Clearfield, UT	0.000	-		-		-		-		-	0.000	0.000	25.937
Fuze Weapon System Integration - RS/RV Sub-System Contract (SSC)	C/CPAF	Lockheed Martin : King of Prussia, PA	0.000	-		-		-		-		-	0.000	0.000	84.691
Fuze Weapon System Integration Contract (WSIC)	C/CPFF	Lockheed Martin : King of Prussia, PA	0.000	-		-		-		-		-	0.000	0.000	76.151
Subtotal			0.000	0.000		3.252		-		-		-	5.900	9.152	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		3.252		-		-		-	5.900	9.152	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force															Date: April 2026				
Appropriation/Budget Activity										R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 5										PE 0604933F / ICBM Fuze Modernization					655082 / ICBM FUZE SUPPORT				

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Full Rate Production Decision (November 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 2027 Air Force			Date: April 2026
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
<i>AF ICBM Fuze Modernization Program</i>				
Engineering and Manufacturing Development	1	2025	4	2026
Fuze EMD, Integration and Systems Engineering	1	2025	4	2026
Production and Deployment	1	2025	4	2031
Fuze Mod Digital Model Development	1	2025	4	2025
Full Rate Production Decision (November 2024)	1	2025	1	2025
Required Assets Available (RAA) (May 2025)	2	2025	2	2025
DOE/NNSA Phase 6.6 Entry (June 2025)	3	2025	3	2026

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 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	40.147	41.422	43.482	0.000	43.482	42.426	43.180	44.044	44.883	Continuing	Continuing
656060: Standards Management	0.000	40.147	41.422	43.482	0.000	43.482	42.426	43.180	44.044	44.883	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Open Architecture Management (OAM) PE funds Modular Open Systems Approach (MOSA) maturation and its adoption by weapon systems across the DAF and the Department of War (DoW). The DoW Acquisition Transformation Strategy mandates Open Systems Architectures in all acquisition programs. The OAM PE democratizes implementation of open architecture across the DAF, accelerating fielding of capabilities, breaking vendor lock and increasing return on investment for cost, agility, interoperability, and lethality operational outcomes. This PE has a direct impact on how quickly the service can implement the DoW Open Systems Architecture Initiative.

This budget funds the progression of Open Mission Systems (OMS), the Universal Command and Control Interface (UCI), other emerging MOSA standards, and integration across other DAF and DoW standards. 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 and broader DoW 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 horizontal integration 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.

Funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

Funding may be used to resolve Diminishing Manufacturing Sources and Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect schedule, and engineering efforts.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
The Architecture and Systems Engineering (ASE) group, Fighter and Advanced Aircraft Directorate, Air Force Life Cycle Management Center (AFLCMC), Wright Patterson AFB executes these resources. 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 (SOSA)], and 0604602F/Armament/Ordnance Development (655361/Stores/Aircraft Interface).						
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.						
The FY 2026 funding request was reduced by 2.190 million to account for the availability of prior year execution balances.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		41.223	44.150	0.000	0.000	0.000
Current President's Budget		40.147	41.422	43.482	0.000	43.482
Total Adjustments		-1.076	-2.728	43.482	0.000	43.482
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-2.190			
• 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		-1.076	-0.538			
• Other Adjustments		0.000	0.000	43.482	0.000	43.482
Change Summary Explanation						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Open Architecture Management				40.147	41.422	43.482

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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)		FY 2025	FY 2026	FY 2027
Description: Funding supports development of new mission-critical Open Mission Systems/Universal Command and Control Interface (OMS/UCI) features requested by the 30+ operational adopting platforms across the DAF, Department of War and international partners. Funding also supports experimentation, modeling, integration events, and studies to establish a common DAF Modular Open Systems Approach (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 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 2026 Plans: - Increase adoptability with USSF/Command, Control, Communications and Battle Management (C3BM) systems to support DAF Battle Network - Rapidly respond to emerging technologies, operational weapons systems feature request and adopting platform requirements by completing 85-95 change requests annually - Align Open Mission System (OMS) with Agile Mission Suite Government Reference Architecture (AMS GRA), unlocking additional capabilities for future adopters - Continue technical maturation of the OMS and UCI standards - 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 - Begin planning for adopting Sensor Open Systems Architecture (SOSA) requirements FY 2027 Plans: - Craft targeted prototype of open architecture implementation to inform maturation efforts and ease adoption - Complete 95 change requests in FY27 - Continue technical maturation of the OMS and UCI standards - Continue to update standards to account for emerging technologies and operational weapon system feature requests - Support feature requests from deployment of UCI in support of the DAF Battle Network - Conduct targeted training to new and existing adopters to ease implementation - Horizontally integrate and rationalize standards with other mission system architecture products				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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) - Develop and update open hardware technical standards for government reference architecture implementations - Define domain-specific data modeling usage for joint interoperability - Mature Model-Based Systems Engineering (MBSE) products within open architectures - Mature plans for adopting SOSA requirements FY 2026 to FY 2027 Increase/Decrease Statement: FY 2027 funding increased compared to FY 2026 by \$2.06 million due to the continued adoption of open architecture adoption the United States Space Force, DAF Command, Control, Communications and Battle Management (C3BM) platforms. With the deliberate increase in depth of architecture knowledge across Air Force legacy platforms, there is a forecasted surge in change requests, training, and implementation guidance, to support the increase in adopting platforms. Furthermore, the Architectures and Standards will support implementing Open Architectures on new development Air Force Platforms [F-47, B-21, Collaborative Combat Aircraft (CCA)] as well as adopting SOSA requirements.		FY 2025	FY 2026	FY 2027
Accomplishments/Planned Programs Subtotals		40.147	41.422	43.482
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy As of August 2025, the Architecture and Systems Engineering group has developed an updated acquisition strategy and awarded a contract vehicle to curate, mature, integrate, and field several open architecture efforts. This new acquisition strategy consolidates management of several prior bespoke efforts to drive integration by design across architecture efforts. This new strategy also prioritizes horizontal integration and rationalization across a family of mission systems architectures to ease adoption in legacy and future DAF weapon systems. Additionally, the Open Architecture Management PE leverages technical expertise via a modular contracting approach that allows for vendor onboarding and offboarding during every six-month phase based on performance and phase objectives. Lastly, this PE funds analysis and support via other Government Agencies, Federally Funded R&D Centers, and advisory/assistance contractors.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	27.663	Dec 2027	-		27.663	Continuing	Continuing	-
Open Architecture Collaborative Working Group - Anduril	C/CPFF	Anduril : Costa Mesa, CA	-	2.425	Dec 2024	-		-		-		-	Continuing	Continuing	-
Open Architecture Collaborative Working Group - Boeing	C/CPFF	Boeing Company : St. Louis, MO	-	4.155	Dec 2024	-		-		-		-	Continuing	Continuing	-
Open Architecture Collaborative Working Group - Collins Aerospace	C/CPFF	Collins Aerospace : Cedar Rapids, IA	-	0.955	Dec 2024	-		-		-		-	Continuing	Continuing	-
Open Architecture Collaborative Working Group - General Dynamics	C/CPAF	General Dynamics : Fairfax, VA	-	1.524	Dec 2024	-		-		-		-	Continuing	Continuing	-
Open Architecture Collaborative Working Group - Lockheed Martin	C/CPFF	Lockheed Martin : Fort Worth, TX	-	5.850	Dec 2024	-		-		-		-	Continuing	Continuing	-
Open Architecture Collaborative Working Group - Northrop Grumman	C/CPFF	Northrop Grumman : Melbourne, FL	-	9.183	Dec 2024	-		-		-		-	Continuing	Continuing	-
Open Architecture Collaborative Working Group - Raytheon	C/CPFF	Raytheon Company : El Segundo, CA	-	2.818	Dec 2024	-		-		-		-	Continuing	Continuing	-
76th Software Maintenance Group (76 SMXG) Development	PO	76 SWEG : Tinker AFB, OK	-	5.595	Dec 2024	6.144	Dec 2025	6.451	Dec 2026	-		6.451	Continuing	Continuing	-
Air Force Research Laboratory (AFRL) Science and Technology Initiatives	MIPR	AFRL : Various	-	2.140	Dec 2024	2.250	Dec 2025	3.188	Dec 2026	-		3.188	Continuing	Continuing	-
Integrations Experiments and Prototypes Initiatives	Various	Various : Various	-	4.774	Dec 2024	3.268	Dec 2025	4.230	Feb 2027	-		4.230	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			-	39.419		39.582		41.532		-		41.532	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.728	Jan 2025	1.840	Jan 2026	1.950	Jan 2027	-		1.950	Continuing	Continuing	-
Subtotal			-	0.728		1.840		1.950		-		1.950	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	40.147		41.422		43.482		-		43.482	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026							
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Open Architecture Working Group (6-month phases)																												
OMS & UCI Standards Deliveries																												
Horizontal Integration Deliveries																												
Transition AFRL OA's																												
Integration and Test Events																												
Small Business & Product Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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
<i>Develop and Evolve Standards</i>				
Open Architecture Working Group (6-month phases)	1	2025	4	2031
OMS & UCI Standards Deliveries	2	2025	4	2031
Horizontal Integration Deliveries	4	2025	4	2031
Transition AFRL OA's	4	2025	4	2028
Integration and Test Events	3	2025	4	2031
Small Business & Product Support	3	2025	1	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	1,132.500	240.513	163.138	72.174	0.000	72.174	49.441	56.883	8.769	5.418	Continuing	Continuing
655340: Advanced Trainer Replacement T-7A	1,132.500	240.513	163.138	72.174	0.000	72.174	49.441	56.883	8.769	5.418	Continuing	Continuing
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 and Training Command's (AETC) aging T-38C fleet with an affordable and integrated system. This system includes 351 new aircraft, a Ground Based Training System (GBTS), a Maintenance Training System (MTS), and the necessary infrastructure to meet AETC's need date of FY 2027. The training systems will feature simulators, training devices, and computer-based academics for the Advanced Specialized Undergraduate Pilot Training and Introduction to Fighter Fundamentals program tracks.												
Under an updated 2025 acquisition strategy, four T-7 Production Representative Test Vehicles (PRTVs) were procured and are scheduled for delivery in FY 2026 and FY 2027. This plan includes incentives to expedite Engineering Manufacturing Development (EMD) testing, improve Boeing's production readiness at its St. Louis, MO facility, and accelerate entrance into Initial Operational Test and Evaluation (IOT&E) at Joint Base San Antonio-Randolph, Texas. Funding for FY2027 continues aircraft developmental test and evaluation (DT&E) and initiates IOT&E.												
The MTS will provide maintainers with the foundational skills to maintain the T-7A aircraft through a blended training solution. This includes a suite of Maintenance Training Devices (MTDs) with support equipment, Interactive Multimedia Instruction (IMI) courseware, smart classrooms for instructor-led training, and support environments to manage schedules and data. FY2027 funding continues the design, development, integration, and test of these training capabilities.												
This funding request directly aids AETC's flying training enterprise to continue increasing its future pilot production, an effort that began in FY 2020 to reduce the 250 per year USAF pilot shortage.												
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 included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	248.589	172.378	0.000	0.000	0.000	
Current President's Budget	240.513	163.138	72.174	0.000	72.174	
Total Adjustments	-8.076	-9.240	72.174	0.000	72.174	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	-7.500				
• 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	-8.076	-1.740				
• Other Adjustments	0.000	0.000	72.174	0.000	72.174	
Change Summary Explanation						
FY 2025 funding decreased by \$8.076 million for Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
FY 2026 funding decreased by a total of \$9.240 million due to a \$7.500 million Congressional Directed Reduction for Maintenance Training System early to need and a \$1.740 million decrease to support the Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Advanced Pilot Training (APT) Program				240.513	163.138	72.174
Description: The Advanced Pilot Training (APT) / T-7A Red Hawk program has completed Milestone B and entered into the Engineering and Manufacturing Development (EMD) phase. Efforts include but not limited to development, test, studies, analysis, acquisition documentation, market research activities, and engineering changes.						
FY 2026 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 2027 Plans: Continue DT&E, begin IOT&E, continue MTS development activities and execution of engineering changes.						
FY 2026 to FY 2027 Increase/Decrease Statement:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027
Funding decreased due to reduction in contractor incentives.												
Accomplishments/Planned Programs Subtotals										240.513	163.138	72.174
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• APAF 03 APT000: Advanced Pilot Training T-7A	20.780	362.083	529.464	-	529.464	985.169	947.183	1,223.252	1,105.603	2,330.178	7,503.712	
• APAF 06 APT000: Advanced Trainer Replacement T-7A	19.638	43.000	41.279	-	41.279	55.049	56.068	72.890	74.311	164.699	526.934	
• APAF 07 Line Item 000075: Other Production Charges	13.279	51.510	77.940	-	77.940	7.663	7.805	9.020	9.197	279.889	456.303	
• OPAF 02 822990: Cargo and Utility Vehicles	0.000	0.000	0.117	-	0.117	1.121	1.140	1.161	1.184	0.000	4.723	
• OPAF 02 825990: Materials Handling Vehicles	0.304	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.304	
• OPAF 04 845010: Base Procured Equipment	22.850	19.656	14.853	-	14.853	11.249	16.964	13.841	11.911	60.803	172.127	
• MILCON PE 0804701F: T-7A (Advanced Pilot Trainer) Procurement	82.100	138.680	136.650	-	136.650	0.000	91.800	6.950	0.000	0.000	456.180	
Remarks												
E. Acquisition Strategy												
The APT/T-7A Red Hawk program acquisition strategy was approved by Office of Secretary of War, Acquisition and Sustainment (OSW[A&S]) 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 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.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
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. Four T-7 Production Representative Test Vehicles (PRTVs) have been procured and are scheduled for delivery in FY 2026 and FY 2027. This updated plan includes incentives to expedite closure of EMD testing, improve Boeing's production readiness at its facility in St Louis, MO, and accelerate entrance into Initial Operational Test and Evaluation (IOT&E) at Joint Base San Antonio-Randolph, 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	923.492	144.827	Jun 2025	91.142	Jan 2026	0.659	Jan 2027	-		0.659	Continuing	Continuing	-
Advanced Trainer Replacement T-7A Maintenance Training System Contract	C/FPIF	Pinnacle Solutions, LLC : Huntsville, AL	14.984	43.680	Sep 2025	26.462	Jan 2026	29.018	Jan 2027	-		29.018	Continuing	Continuing	-
Subtotal			938.476	188.507		117.604		29.677		-		29.677	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	43.017	7.111	Dec 2024	5.586	Dec 2025	3.081	Dec 2026	-		3.081	Continuing	Continuing	-
Advanced Trainer Replacement T-7A Direct Cite Authority Civilian Pay	Various	AFLCMC : Dayton, OH	8.051	2.937	Oct 2024	7.047	Oct 2025	12.254	Oct 2026	-		12.254	Continuing	Continuing	-
Subtotal			51.068	10.048		12.633		15.335		-		15.335	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	66.885	29.409	Jan 2025	16.126	Jan 2026	16.604	Jan 2027	-		16.604	Continuing	Continuing	-
Subtotal			66.885	29.409		16.126		16.604		-		16.604	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Program Support Costs	Various	AFLCMC : Dayton, OH	76.071	12.549	Dec 2024	16.775	Dec 2025	10.558	Dec 2026	-		10.558	Continuing	Continuing	-
Subtotal			76.071	12.549		16.775		10.558		-		10.558	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1,132.500	240.513		163.138		72.174		-		72.174	Continuing	Continuing	N/A
Remarks															
Prior Years funding total of \$4.994 million was executed in PE 0604233F. Prior years amounts and efforts under Program 0604233F, Specialized Undergraduate Flight Training include Advanced Pilot Training Studies and Analysis (\$0.935 million), Advanced Pilot Training Program Support 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 contracts are Fixed Price Incentive Firm (FPIF) contracts with progress payments. Aircraft/Ground Based Training Systems (GBTS)contract: ten (10%) percent of incurred costs are withheld until the end of the contract, when they are liquidated. Production Representative Test Vehicles (PRTVs) contract: twenty (20%) percent of incurred costs being withheld until the end of the contract. Maintenance Training Systems (MTS)contract: five (5%) percent of incurred costs being withheld until the end of the contract. 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 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Operational Test Readiness Review (OTRR)																												
Initial Operational Test & Evaluation (IOT&E)																												
Full Rate Production Decision (FRPD)																												
Initial Operational Capability (IOC)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605223F / <i>Advanced Pilot Training</i>	Project (Number/Name) 655340 / <i>Advanced Trainer Replacement T-7A</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Advanced Pilot Training</i>				
Engineering and Manufacturing Development (EMD) Phase	1	2025	4	2031
Development, Test and Evaluation	1	2025	4	2031
Milestone C	2	2026	2	2026
Maintenance Training System Development	3	2025	2	2029
Aircraft / Ground Based Training System (GBTs) Production	3	2026	4	2031
Operational Test Readiness Review (OTRR)	2	2027	2	2027
Initial Operational Test & Evaluation (IOT&E)	3	2027	2	2028
Full Rate Production Decision (FRPD)	2	2030	2	2030
Initial Operational Capability (IOC)	3	2027	3	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0605238F / <i>Ground Based Strategic Deterrent EMD</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	7,761.514	1,942.400	2,616.352	4,521.370	0.000	4,521.370	4,657.064	4,319.388	4,743.299	4,384.420	Continuing	Continuing
655238: <i>GROUND BASED STRATEGIC DETERRENT (GBSD)</i>	7,761.514	1,942.400	2,616.352	4,521.370	0.000	4,521.370	4,657.064	4,319.388	4,743.299	4,384.420	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Program MDAP/MAIS Code: 493

Note

The Secretary of War'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 is working with stakeholders to update program requirements, quantities, and milestones to align with the outcomes of the reassessments and refinements. A Phased Milestone B approach (by segment) has been briefed to the Congress and they are tracking that Milestone B criteria will be set 3Q2026.

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.

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

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 (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 2027 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. The FY 2026 spend plan amount for Research, Development, Test & Evaluation includes \$2,616,352 thousand of discretionary and \$2,189,000 thousand of mandatory (reconciliation) for a total of \$4,805,352 thousand. 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. FY27 RDT&E funding for PE 0605238F, Program LGM-35A Sentinel is in is compliance with budgeted end items per the approved test strategy and FY24 Omnibus, Sec. 8057. 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 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	2,011.024	2,647.563	0.000	0.000	0.000	
Current President's Budget	1,942.400	2,616.352	4,521.370	0.000	4,521.370	
Total Adjustments	-68.624	-31.211	4,521.370	0.000	4,521.370	
• 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	-68.624	-31.211				
• Other Adjustments	0.000	0.000	4,521.370	0.000	4,521.370	
Change Summary Explanation						
FY2025 adjustment of -\$68.624 million for SBIR						
FY2026 adjustment of -\$31.211 million for Sec 8151 SBIR/STTR						
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Flight Systems				522.571	857.996	1,452.766
Description: Mature 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 2026 Plans:						
Implement updated specifications, execute design reviews, and mature critical components like AVE, support systems, cybersecurity, and nuclear surety architectures. Refine the Mission Modeling Framework to assess performance against evolving threats.						
Mature the weapon system through trade studies, modeling, simulation, and analysis. Ensure seamless integration of cryptographic systems and Department of Energy technologies through software development, hardware integration, and collaboration with government agencies. Integrate the ICBM Fuze Modernization and Mk21A Reentry Vehicle to the LGM-35A Sentinel weapon system.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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) Leverage mission partners to conduct in-depth technical analysis, subsystem testing, to maintain a strong technical baseline. 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. Establish an adaptable industrial base by developing mission effectiveness capabilities, thereby improving certification strategies, and developing comprehensive sustainment strategies for all system components. FY 2027 Plans: Continue to implement updated specifications, execute design reviews, and mature critical components like AVE, support systems, specialized support equipment, cybersecurity, and nuclear surety architectures. Continue to refine the Mission Modeling Framework to assess performance against evolving threats. Continue to mature the weapon system through trade studies, modeling, simulation, and analysis. Continue to ensure seamless integration of cryptographic systems and Department of Energy technologies through software development, hardware integration, and collaboration with government agencies. Continue to integrate the ICBM Fuze Modernization and Mk21A Reentry Vehicle to the LGM-35A Sentinel weapon system. Increase efforts to leverage mission partners to conduct in-depth technical analysis, digital modeling, subsystem testing, to maintain a strong technical baseline. Increase efforts to 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. Increase efforts to develop an adaptable industrial base by developing mission effectiveness capabilities, thereby improving certification strategies, and developing comprehensive sustainment strategies for all system components. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to the risk reduction / parallel path efforts identified through the program restructure activities, TMRR efforts to achieve MS-B, and the EMD prime contract schedule incentive fee identified in the "Omni-Mod" contract framework.		FY 2025	FY 2026	FY 2027
Title: Command & Launch Description: Design, develop, integrate, test, and certify 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 2026 Plans: Prioritize the development of robust C&L systems. This includes ongoing refinement of command-and-control mission equipment, the wing command center, and crucial cryptographic systems and interfaces. Develop communications systems (hardware and		385.669	481.981	981.701

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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) software), air and ground hardware, and control equipment to ensure the survivability, monitoring, and successful launch of the replacement flight system. Develop 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, to pursue initiatives to optimize the schedule and reduce lifecycle costs as it moves towards production. Conduct rigorous systems engineering to establish an allocated baseline. Mature logistics and product support, as well as capability integration with the NC3 (Nuclear Command, Control, and Communications) enterprise and nuclear command architecture, including collaboration with the DoW and NSA on cryptographic assets. FY 2027 Plans: Continue to prioritize the development of robust C&L systems. This includes ongoing refinement of command-and-control mission equipment, the wing command center, and crucial cryptographic systems and interfaces. Develop 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. Continue to develop launch systems, including launch equipment, ground mechanical and actuation systems, specialized support equipment, 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. Continue to refine weapon system software, integration, architecture, and lifecycle management. To support these objectives, this effort will continue to conduct trade studies, market research, and analyses, to pursue initiatives to optimize the schedule and reduce lifecycle costs as it moves towards production. Continue to conduct rigorous systems engineering to establish an allocated baseline. Continue to mature logistics and product support, as well as capability integration with the NC3 enterprise and nuclear command architecture, including collaboration with the DoW and NSA on cryptographic assets. FY 2026 to FY 2027 Increase/Decrease Statement:		FY 2025	FY 2026	FY 2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Funding increased due to a reduction of FY2026 Discretionary efforts. FY2027 funding increased due to the risk reduction / parallel path efforts identified through the program restructure activities, TMRR efforts to achieve MS-B, and the EMD prime contract schedule incentive fee identified in the "Omni-Mod" contract framework.				
Title: Infrastructure & Deployment Description: Plan, program, and execute Sentinel infrastructure development, integration of transition and deployment activities, resources, and timing of the weapon system deployment. FY 2026 Plans: Develop and modernize infrastructure to support the weapon system's lifecycle. This includes the construction of utility corridors, overseeing real estate acquisition, and pursuing paths for launch silo design and construction to inform acquisition strategies. Establish standard designs for launch silos and launch centers, supporting both operational and test deployments. Plan and program for facilities at key Air Force bases. Execute critical government activities, including environmental impact assessments and agreements. Integrate with the NC3 (Nuclear Command, Control, and Communications) Directorate to develop and mature future command and control capabilities. Assess fielding requirements and timelines for the transition from MM III to Sentinel, while pursuing initiatives to optimize scheduling, mitigate transition risks, and minimize lifecycle costs. Oversee road and bridge assessments and real estate acquisitions to support new missile field designs, and accelerate environmental assessments and agreements. FY 2027 Plans: Continue to develop and modernize infrastructure to support the weapon system's lifecycle. This includes the construction of utility corridors, overseeing real estate acquisition, and pursuing paths for launch silo design and construction to inform acquisition strategies. Continue to establish standard designs for launch silos and launch centers, supporting both operational and test deployments. Continue to plan and program for facilities at key Air Force bases. Execute critical government activities, including environmental impact assessments and agreements. Continue to integrate with the NC3 Directorate to develop and mature future command and control capabilities. Continue to assess fielding requirements and timelines for the transition from MM III to Sentinel, while pursuing initiatives to optimize scheduling, mitigate transition risks, and minimize lifecycle costs.		147.619	168.344	167.808

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Oversee road and bridge assessments and real estate acquisitions to support new missile field designs, and accelerate environmental assessments and agreements. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to the risk reduction / parallel path efforts identified through the program restructure activities to include prototyping, TMRR efforts to achieve MS-B, and the EMD prime contract schedule incentive fee identified in the "Omni-Mod" contract framework.				
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 2026 Plans: Mature the weapon system's software technology, ensuring robust cybersecurity, and developing comprehensive software sustainment strategies. Refine requirements and modular architectures through rigorous testing and analysis, as well as maturing weapon system software, integration, and lifecycle management. Expand data ingestion capabilities to accommodate flight test data and support model-based engineering approaches. Increase government support to sustain the hardware and software technical baseline. Develop and mature sustainment strategies for digital, software, and hardware components. Assess software fielding requirements and timelines, in addition to software infrastructure needs for the transition from MM III to Sentinel. Assess the feasibility of leveraging existing government software resources and partnerships to maintain control of the technical baseline. FY 2027 Plans: Continue to mature the weapon system's software technology, ensuring robust cybersecurity, and developing comprehensive software sustainment strategies. Continue to refine requirements and modular architectures through rigorous testing and analysis, as well as maturing weapon system software, integration, and lifecycle management. Continue to expand data ingestion capabilities to accommodate flight test data and support model-based engineering approaches. Continue to increase government support to sustain the hardware and software technical baseline. Continue to develop and mature sustainment strategies for digital, software, and hardware components. Continue to assess software fielding requirements		143.542	158.817	292.700

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
and timelines, in addition to software infrastructure needs for the transition from MM III to Sentinel. Continue to assess the feasibility of leveraging existing government software resources and partnerships to maintain control of the technical baseline. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to the risk reduction / parallel path efforts identified through the program restructure activities, TMRR efforts to achieve MS-B, and the EMD prime contract schedule incentive fee identified in the "Omni-Mod" contract framework.				
Title: Systems Engineering Description: System Engineering will mature systems engineering, cybersecurity, and modular architectures through rigorous testing and analysis. Establish a framework for weapon system effectiveness reporting through verification and validation of external interface management, systems architecture, modelling and simulation. FY 2026 Plans: Mature 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. Collaborate with mission partners to enhance capabilities, maintain technical expertise, and ensure seamless integration of critical assets. Improve certification processes, develop a common cryptographic device, and advance model-based systems engineering for efficient sustainment. Align system requirements and architectural documentation. Develop a comprehensive Survivability Certification Plan to address nuclear survivability and hardening requirements. Leverage specialty engineering expertise across all disciplines to deliver a 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 2027 Plans: Continue to mature 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. Continue to collaborate with mission partners to enhance capabilities, maintain technical expertise, and ensure seamless integration of critical assets. Continue to improve certification processes, develop a common cryptographic device, and advance model-based systems engineering for efficient sustainment. Continue to align system requirements and architectural documentation.		303.341	395.890	782.971

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Execute systems security engineering activities: Systems Theoretic Process Analysis (STPA), supply-chain risk management, program protection planning and execution, and multi-disciplinary adversarial emulation and Red Team activities. These efforts will address the risks of a dynamic threat environment, to reduce technical, engineering, integration, test, and lifecycle cost risk.				
Finalize a comprehensive Survivability Certification Plan to continue, addressing nuclear survivability and hardening requirements. Continue to maintain emphasis on leveraging specialty engineering expertise across all disciplines to deliver a 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 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to the risk reduction / parallel path efforts identified through the program restructure activities, TMRR efforts to achieve MS-B, and the EMD prime contract schedule incentive fee identified in the "Omni-Mod" contract framework.				
Title: Test		136.545	193.888	409.831
Description: Testing develops, modernizes, and prepares a robust strategy and capabilities to support the weapon system throughout its entire lifecycle, encompassing risk reduction, developmental, operational, and live-fire testing to satisfy statutory and regulatory requirements. Informs Operational Safety, Suitability, and Effectiveness (OSS&E) determinations.				
FY 2026 Plans: Develop, modernize, and expand test capabilities for the weapon system across all stages of testing, including technical maturity, developmental, operational, and live fire test and evaluation. The emphasis is 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. Modernize instrumentation networks at key test ranges, such as Vandenberg Space Force Base, Reagan Test Site, and the Pacific Missile Range Facility. Improve information systems and cybersecurity infrastructure to ensure seamless and secure data management and collaboration.				
Conduct strategic planning, resource allocation, and risk reduction activities for ground and flight test activities. Conduct development of comprehensive ground and flight test strategies, to include pad launch and government-led tests. 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. Refine technical requirements, and construct/outfit specialized labs and test facilities. Develop and execute a robust developmental test program, encompassing flight tests, cyber testing, environmental testing, and an evaluation				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>Ground Based Strategic Deterrent EMD</i>		
C. Accomplishments/Planned Programs (\$ in Millions) of modeling and simulation products. Plan for future testing of a secondary and leverage the industrial base to increase test throughput at specialized sites. FY 2027 Plans: Increase efforts to develop, modernize, and expand test capabilities for the weapon system across all stages of testing, including technical maturity, developmental, operational, and live fire test and evaluation. The emphasis is 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. Increase efforts to modernize instrumentation networks at key test ranges, such as Vandenberg Space Force Base, Reagan Test Site, and the Pacific Missile Range Facility. Improve information systems and cybersecurity infrastructure to ensure seamless and secure data management and collaboration. Increase efforts to conduct strategic planning, resource allocation, and risk reduction activities for ground and flight test activities. Continue to conduct development of comprehensive ground and flight test strategies, to include pad launch and government-led tests. Increase efforts 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. Continue to refine technical requirements, and construct/outfit specialized labs and test facilities. Continue to develop and execute a robust developmental test program, encompassing flight tests, cyber testing, environmental testing, and an evaluation of modeling and simulation products. Continue to plan for future testing of a secondary and leverage the industrial base to increase test throughput at specialized sites. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to the risk reduction / parallel path efforts identified through the program restructure activities, TMRR efforts to achieve MS-B, and the EMD prime contract schedule incentive fee identified in the "Omni-Mod" contract framework.		FY 2025	FY 2026	FY 2027
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 2026 Plans: Ensure the program has the necessary manpower, technical expertise, management, physical security, IT infrastructure, and cybersecurity capabilities to successfully develop and acquire the weapon system. Manage and acquire support from various program partners such as Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research		303.113	359.436	433.593

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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.				
Expand and update information systems, IT infrastructure, and cybersecurity networks to support highly classified activities and maintain connectivity with mission partners. Enhance the DevSecOps environment and data transport capabilities across classified networks using cross-domain solutions. Prioritize cloud network infrastructure improvements to increase reliability, availability, and security.				
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 Sentinel program.				
FY 2027 Plans: Continue to ensure the program has the necessary manpower, technical expertise, management, physical security, IT infrastructure, and cybersecurity capabilities to successfully develop and acquire the weapon system. Continue to manage and acquire 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.				
Continue to expand and update information systems, IT infrastructure, and cybersecurity networks to support highly classified activities and maintain connectivity with mission partners. Continue to enhance the DevSecOps environment and data transport capabilities across classified networks using cross-domain solutions. Continue to prioritize cloud network infrastructure improvements to increase reliability, availability, and security.				
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 Sentinel program.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to the government portion of the program restructure activities and TMRR efforts to achieve MS-B while the program office continues portions of the original program.				
Accomplishments/Planned Programs Subtotals		1,942.400	2,616.352	4,521.370

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force									Date: April 2026			
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						
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• RDTE 04 0605230F: Ground Based Strategic Deterrent	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
• RDTE 04 0603851F: Intercontinental Ballistic Missile - Dem/Val	106.040	117.120	72.112	-	72.112	136.788	125.652	127.742	130.327	Continuing	Continuing	
• RDTE 07 0101328F: ICBM Reentry Vehicles	378.983	356.758	733.182	-	733.182	1,053.256	1,152.009	1,484.146	1,362.846	Continuing	Continuing	
• MPAF 01 MGBSD0: Ground Based Strategic Deterrent	0.000	0.000	107.602	-	107.602	240.014	1,377.948	1,916.165	2,804.152	Continuing	Continuing	
• MPAF 01 MK21A0: Mk21A Reentry Vehicle	26.156	0.000	0.000	-	0.000	0.000	7.463	77.581	149.172	Continuing	Continuing	
• MILCON PE 0101233F: GBSD SQUADRONS	784.145	202.000	1,239.300	-	1,239.300	1,022.200	1,215.500	1,196.797	1,997.859	Continuing	Continuing	
• OPAF 03 834130: Air Force Physical Security System	0.000	5.119	2.518	-	2.518	0.000	0.000	0.000	0.000	0.000	7.637	
• OPAF 04 845010: Base Procured Equipment	0.000	4.985	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.985	
• APAF 05 OTHACF: Other Aircraft	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	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. Congress has been briefed on the phased Milestone B approach and that entry/exit criteria will be codified 1 Aug with Milestone B Criteria Set												
The LGM-35A Sentinel program will revalidate program requirements to deliver a full, integrated weapon system capability that meets Air Force Global Strike Command's Capability Development Document requirements. Preserve cost, schedule, and performance trade space of the Sentinel ICBM program at and below the key systems attribute level. Conduct an integrated baseline review in support of MS B approval to identify major risks in the contractor's performance measurement baseline, including scope, schedule, and budget for major suppliers. Update the LGM-35A Sentinel Software Development Plan to include software architecture,												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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>Ground Based Strategic Deterrent EMD</i>	
software development processes, approaches and methods, software engineering environment, and integration and testing. Optimize design solutions and deployment timelines to ensure a transition between Minuteman III and LGM-35A Sentinel. 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 2027 Air Force												Date: April 2026			
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)					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	6,366.046	1,219.744	Oct 2024	1,659.776	Oct 2025	3,512.654	Oct 2026	-		3,512.654	Continuing	Continuing	-
Subtotal			6,366.046	1,219.744		1,659.776		3,512.654		-		3,512.654	Continuing	Continuing	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.															
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	298.174	139.510	Oct 2024	170.279	Oct 2025	211.000	Oct 2026	-		211.000	Continuing	Continuing	-
Naval Surface Warfare Center Crane Support	MIPR	Naval Surface Warfare Center Crane : Crane, IN	10.201	4.529	Nov 2024	6.050	Nov 2025	6.050	Nov 2026	-		6.050	Continuing	Continuing	-
Aerospace FFRDC Support	MIPR	Aerospace Corporation : El Segundo, CA	46.236	30.930	Nov 2024	27.000	Nov 2025	28.000	Nov 2026	-		28.000	Continuing	Continuing	-
MITRE FFRDC Support	MIPR	MITRE : Bedford, MA	33.533	22.239	Nov 2024	22.500	Nov 2025	25.200	Nov 2026	-		25.200	Continuing	Continuing	-
Carnegie Mellon Software Engineering Institute Support	MIPR	Carnegie Mellon : Pittsburgh, PA	7.117	3.500	Nov 2024	5.529	Nov 2025	5.529	Nov 2026	-		5.529	Continuing	Continuing	-
Sandia FFRDC Reentry Systems Analysis Support	MIPR	Sandia National Laboratories : Various	3.550	1.656	Oct 2024	1.800	Oct 2025	1.850	Oct 2026	-		1.850	Continuing	Continuing	-
MIT Lincoln Labs FFRDC Reentry Systems Analysis Support	MIPR	MIT Lincoln Labs : Lexington, MA	3.490	1.500	Oct 2024	1.800	Oct 2025	1.850	Oct 2026	-		1.850	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 & Certification Support	MIPR	Various : Various	8.510	6.347	Nov 2024	21.707	Nov 2025	17.131	Nov 2026	-		17.131	Continuing	Continuing	-
Operations Research Analyst Support	C/FFP	Tecolote : Hill AFB, UT	14.753	8.840	Oct 2024	10.100	Oct 2025	10.800	Oct 2026	-		10.800	Continuing	Continuing	-
Common Cryptographic Equipment	MIPR	Sandia National Labs : Various	27.552	20.941	Nov 2024	15.459	Nov 2025	15.881	Nov 2026	-		15.881	Continuing	Continuing	-
Security Support	Various	Space Missile Defense : Herndon, VA	11.245	1.386	Dec 2024	2.500	Dec 2025	2.500	Dec 2026	-		2.500	Continuing	Continuing	-
NEPA Analysis Support	MIPR	Various : Various	53.609	82.345	Nov 2024	97.900	Nov 2025	103.900	Nov 2026	-		103.900	Continuing	Continuing	-
LGM-35A Sentinel Direct Cite Civilian Pay	Various	US Gov Civilians : Hill AFB, UT	40.844	35.000	Oct 2024	41.500	Oct 2025	42.150	Oct 2026	-		42.150	Continuing	Continuing	-
Reentry Vehicle Sustainment Support	C/CPAF	Lockheed Martin Corp : Bethesda, MD	4.674	2.046	Dec 2024	3.000	Dec 2025	6.300	Dec 2026	-		6.300	Continuing	Continuing	-
Sandia Integration Support	MIPR	Sandia National Labs : Various	6.250	4.325	Jan 2025	6.000	Jan 2026	7.000	Jan 2027	-		7.000	Continuing	Continuing	-
LGM-35A Sentinel Facility Execution Support	Various	Various : Various	6.793	1.879	Jan 2025	3.000	Nov 2025	3.500	Jan 2027	-		3.500	Continuing	Continuing	-
Space Dynamics Lab Support	C/CPFF	USU Space Dynamics Lab : Logan, UT	20.152	15.593	Nov 2024	19.020	Nov 2025	19.781	Nov 2026	-		19.781	Continuing	Continuing	-
NC3 Terrestrial Integration Support	Various	Various : Various	1.546	0.000	Nov 2024	-		0.000		-		0.000	0.000	1.546	-
Secondary Launch Platform - Airborne	MIPR	Naval Air Systems Command : Patuxent River, MD	0.348	0.230	Dec 2024	1.000	Dec 2025	0.735	Dec 2026	-		0.735	Continuing	Continuing	-
USACE Integrated Program Office	MIPR	US Army Corp of Engineers : Washington D.C.	6.445	5.406	Nov 2024	7.006	Nov 2025	7.006	Nov 2026	-		7.006	Continuing	Continuing	-
Industrial Base Single Board Computer	C/Various	Various : TBD	58.038	0.000		32.290	Nov 2025	24.790	Nov 2026	-		24.790	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Department of Energy - Oakridge National Labs	MIPR	Oakridge National Labs : Washington D.C.	3.700	3.000	May 2025	3.525	Nov 2025	4.000	Nov 2026	-		4.000	Continuing	Continuing	-
Industrial Base Analysis	C/FFP	McKinsey & Company, Inc. : Washington D.C	15.282	0.000		0.000	Jan 2026	0.000		-		0.000	0.000	15.282	-
Operational Weapon System Article Utility Corridor	MIPR	Advanced Comm. Tech., Inc : Sheridan, WY	4.251	0.185	Nov 2024	0.190	Nov 2025	0.196	Nov 2026	-		0.196	Continuing	Continuing	-
Joint Network of Engineering and Emerging Operations	MIPR	Huntington Ingalls Inds. : Newport News, VA	3.837	5.560	Oct 2024	6.000	Nov 2025	6.000	Nov 2026	-		6.000	Continuing	Continuing	-
Joint Advanced Combat Computing for Enhanced Lethality	MIPR	Lawrence Livermore Lab. : Livermore, CA	2.370	0.000		2.700	Nov 2025	2.700	Nov 2026	-		2.700	Continuing	Continuing	-
Industrial Base Rad-Hard Analog to Digital Converter	MIPR	Missile Defense Agency : Fort Belvoir, VA	23.000	0.000		-		0.000		-		0.000	0.000	23.000	-
Industrial Base Honeywell Plymouth Facility Upgrades	MIPR	DTIC : Fort Belvoir, VA	35.100	0.000		-		0.000		-		0.000	0.000	35.100	-
Industrial Base Strategic Resonant Beam Accelerometer Laboratory	Various	Honeywell : Clearwater, FL	3.800	0.000		-		0.000		-		0.000	0.000	3.800	-
Industrial Base Post Boost Attitude Control Module	Various	Air Force Research Labs : Edwards AFB, CA	34.741	0.000		-		0.000		-		0.000	0.000	34.741	-
Industrial Base Electrical Discharge Machine	C/CPIF	Northrop Grumman Sys Corp : El Segundo, CA	4.159	0.000		-		0.000		-		0.000	0.000	4.159	-
LGM-35A Sentinel Enterprise Support	C/Various	Various : Various	2.490	0.292	Dec 2024	0.228	Nov 2025	0.150	Dec 2026	-		0.150	Continuing	Continuing	-
Subtotal			795.790	397.239		508.083		553.999		-		553.999	Continuing	Continuing	N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 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.															
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	99.571	57.593	Oct 2024	65.000	Oct 2025	71.000	Oct 2026	-		71.000	Continuing	Continuing	-
Arnold Engineering Development Complex - Integrated Test Team	PO	Arnold Engineering Development Complex : Arnold AFB, TN	38.913	30.569	Oct 2024	45.224	Oct 2025	68.870	Oct 2026	-		68.870	Continuing	Continuing	-
Air Force Operational Test and Evaluation Center - Integrated Test Team	PO	Air Force Operational Test and Evaluation Center : Hill AFB, UT	5.572	3.412	Oct 2024	5.000	Oct 2025	6.370	Oct 2026	-		6.370	Continuing	Continuing	-
Missile & Intelligence Center - Integrated Threat Analysis and Simulation Environment	MIPR	DIA-Missile and Space Intelligence Center : Redstone Arsenal, AL	12.615	6.590	Nov 2024	7.200	Nov 2025	7.400	Nov 2026	-		7.400	Continuing	Continuing	-
National Air and Space Intelligence Center - Integrated Threat Analysis and Simulation Environment	MIPR	National Air and Space Intelligence Center : Fairborn, OH	0.750	2.000	Nov 2024	2.100	Nov 2025	2.200	Nov 2026	-		2.200	Continuing	Continuing	-
309th SMXG Software Engineering Support	PO	309th / 517th SWEG : Hill AFB, UT	46.335	31.000	Oct 2024	41.820	Oct 2025	35.700	Oct 2026	-		35.700	Continuing	Continuing	-
309th SMXG Nuclear Safety Cross Check Analysis	PO	309th / 516th SWES : Hill AFB, UT	17.246	0.000	Oct 2024	-		0.000		-		0.000	0.000	17.246	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Silo Fly-out Modeling and Simulation	MIPR	Various : Various	6.750	1.653	Nov 2024	2.500	Nov 2025	0.500	Nov 2026	-		0.500	0.000	11.403	-
Launch Silo Site Assessment	MIPR	Various : Various	28.983	1.140	Mar 2025	-		0.000		-		0.000	0.000	30.123	-
Sandia Flight Test Vehicle Development	MIPR	Sandia National Labs : Various	68.479	32.850	Dec 2024	32.000	Dec 2025	30.000	Dec 2026	-		30.000	Continuing	Continuing	-
Naval Surface Warfare Center Corona Support	MIPR	Naval Surface Warfare Center : Corona, CA	2.549	1.409	Dec 2024	1.391	Dec 2025	1.432	Dec 2026	-		1.432	Continuing	Continuing	-
Combined Test Facility Support	MIPR	Various : Various	3.045	2.448	Nov 2024	3.000	Nov 2025	2.179	Nov 2026	-		2.179	Continuing	Continuing	-
Broad Ocean Area Terminal Area Scoring Test Capability	MIPR	Navy Strat. Sys. Programs : Various	13.923	5.682	Nov 2024	17.392	Nov 2025	9.000	Nov 2026	-		9.000	Continuing	Continuing	-
Little Mountain Test Facility Radiation Lab Upgrades	C/CPFF	The Boeing Company : Layton, UT	0.000	0.000	Nov 2024	3.600	Nov 2025	0.000	Nov 2026	-		0.000	Continuing	Continuing	-
Material Testing Collaboration	MIPR	Navy Strat. Sys. Programs : Washington, DC	2.500	3.221	Dec 2025	4.200	Dec 2025	4.800	Dec 2026	-		4.800	Continuing	Continuing	-
Test Range Support	Various	Various : Various	4.279	0.495	Dec 2024	1.909	Dec 2025	0.000	Dec 2026	-		0.000	Continuing	Continuing	-
Industrial Base Centrifuge	C/CPFF	Air Force Research Lab : Kirtland AFB, NM	4.800	0.000		-		0.000		-		0.000	0.000	4.800	-
LGM-35A Sentinel Enterprise Test and Assessments	C/Various	Various : Various	3.240	1.800	Nov 2024	5.068	Nov 2025	5.107	Nov 2026	-		5.107	Continuing	Continuing	-
Subtotal			359.550	181.862		237.404		244.558		-		244.558	Continuing	Continuing	N/A
Remarks Prior year's funding included under Program 0605230F, Ground Based Strategic Deterrent.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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)					
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.577	0.000	Nov 2024	-		0.000		-		0.000	0.000	0.577	-
LGM-35A Sentinel Enterprise Process Improvement Support	C/FFP	Booz Allen Hamilton : McLean, VA	30.667	11.629	Nov 2024	19.100	Nov 2025	0.400	Nov 2026	-		0.400	Continuing	Continuing	-
Hardware, Software, IT Resources	C/Various	Various : Various	62.151	28.867	Oct 2024	71.380	Oct 2025	60.980	Oct 2026	-		60.980	Continuing	Continuing	-
LGM-35A Sentinel DevSecOps, Software Factory, Cloud, & Infrastructure	Various	Various : Various	131.787	90.826	Nov 2024	109.996	Nov 2025	142.566	Nov 2026	-		142.566	Continuing	Continuing	-
Government Product Lifecycle Management	MIPR	Seimens Government Tech. : Reston, VA	0.858	4.337	Jan 2025	5.000	Jan 2026	5.143	Dec 2026	-		5.143	Continuing	Continuing	-
Technical Baseline Support	MIPR	Department of the Navy : Various	1.258	0.000	Oct 2024	-		0.000		-		0.000	0.000	1.258	-
Nuclear Material Management	C/CPAF	Various : Various	0.000	2.895	Jul 2025	-		0.000		-		0.000	0.000	2.895	-
Enterprise PMA	Various	Various : Various	12.830	5.001	Oct 2024	5.613	Nov 2025	1.070	Nov 2026	-		1.070	Continuing	Continuing	-
Subtotal			240.128	143.555		211.089		210.159		-		210.159	Continuing	Continuing	N/A
Remarks															
Prior year's funding included under Program 0605230F, Ground Based Strategic Deterrent.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			7,761.514	1,942.400		2,616.352		4,521.370		-		4,521.370	Continuing	Continuing	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.															

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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 2027 Air Force																Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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)																												
Technology Maturation & Risk Reduction Phase																												
System Requirements Review																												
MS-B Criteria Set																												
Restructure Complete																												
Pad-Launch Flight Test #1																												
Silo Flight Test #1																												
Engineering, Manufacturing and Design Phase																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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)				
Technology Maturation & Risk Reduction Phase	1	2025	1	2027
System Requirements Review	3	2026	3	2026
MS-B Criteria Set	4	2026	4	2026
Restructure Complete	1	2027	1	2027
Pad-Launch Flight Test #1	3	2027	3	2027
Silo Flight Test #1	3	2030	3	2030
Engineering, Manufacturing and Desgin Phase	1	2027	4	2031

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 2027 Air Force	Date: April 2026

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 0605296F / <i>Microelectronics Secure Enclave</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	103.608	224.664	0.000	224.664	304.365	323.904	335.780	342.578	0.000	1,634.899
650020: <i>Microelectronics Secure Enclave</i>	0.000	0.000	103.608	224.664	0.000	224.664	304.365	323.904	335.780	342.578	0.000	1,634.899
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

In support of the Secretary of War'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 accelerate the adoption of SOTA microelectronics for 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. In FY 2027, \$6M 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.

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 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)				
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0605296F I Microelectronics Secure Enclave				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	0.000	104.990	0.000	0.000	0.000	
Current President's Budget	0.000	103.608	224.664	0.000	224.664	
Total Adjustments	0.000	-1.382	224.664	0.000	224.664	
• 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	-1.382				
• Other Adjustments	0.000	0.000	224.664	0.000	224.664	
Change Summary Explanation						
(U) FY26: Decrease in RDT&E, AF (-1.382 million) was due to a Sec 8151 SBIR reduction.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Microelectronics Secure Enclave Execution				0.000	103.608	224.664
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 accelerate the adoption of SOTA microelectronics for integration into critical weapon systems and will invest in sustained production output from the Secure Enclave.						
FY 2026 Plans: Microelectronics Secure Enclave program office support, pilot project initiation and investment in minimum production infrastructure costs to maintain continued manufacturing capacity.						
FY 2027 Plans: Microelectronics Secure Enclave program office support, pilot projects, and investment in minimum production infrastructure costs to maintain continued manufacturing capacity.						
FY 2026 to FY 2027 Increase/Decrease Statement: The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
Accomplishments/Planned Programs Subtotals				0.000	103.608	224.664

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks N/A		
E. Acquisition Strategy Following a reverse industry day and several post-event engagements with various industry and USG partners, the Secure Enclave program office gained substantial insight regarding investment requirements and opportunities. With this insight, the program office developed an informed pilot project acquisition strategy which allows for a flexible approach to cover key use cases, capability testing, and intellectual property development to accelerate the adoption of SOTA microelectronics. Additionally, the program office continues to work closely with the vendor as a sole source to efficiently refine production capacity investment and integration to support the nation's most sensitive warfighting capabilities.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Projects	Various	TBD : TBD	-	-		25.000	Mar 2026	25.000	Mar 2027	-		25.000	Continuing	Continuing	-
Production Capacity Investment and Integration	Various	TBD : TBD	-	-		64.722	Mar 2026	173.819	Mar 2027	-		173.819	Continuing	Continuing	-
Subtotal			-	-		89.722		198.819		-		198.819	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	C/CPAF	Not specified. : TBD	-	-		5.108	Mar 2026	8.511	Mar 2027	-		8.511	Continuing	Continuing	-
Subtotal			-	-		5.108		8.511		-		8.511	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Support	Various	SBIR/STTR, USAF : TBD	-	-		3.843		8.171		-		8.171	Continuing	Continuing	-
PSC - Travel	Various	National Capital Region : JBAB	-	-		0.240		0.240		-		0.240	Continuing	Continuing	-
PSC - Internal A&AS/ SETA	Various	National Capital Region : JBAB	-	-		3.900	Mar 2026	7.893	Oct 2026	-		7.893	Continuing	Continuing	-
PSC - Internal IT (Legacy, Network Engineering, Modernization and Integration)	Various	National Capital Region : JBAB	-	-		0.795	Mar 2026	1.030	Oct 2026	-		1.030	Continuing	Continuing	-
Subtotal			-	-		8.778		17.334		-		17.334	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		103.608		224.664		-		224.664	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force							Date: April 2026			
Appropriation/Budget Activity 3600 / 5			R-1 Program Element (Number/Name) PE 0605296F / Microelectronics Secure Enclave			Project (Number/Name) 650020 / Microelectronics Secure Enclave				
	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 5					PE 0605296F / Microelectronics Secure Enclave					650020 / Microelectronics Secure Enclave									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2	2026	4	2031
Pilot Projects	2	2026	4	2031
Production Capacity Investment and Integration	2	2026	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0101125F I Nuclear Weapons Modernization							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	23.066	0.000	23.066	22.000	10.000	1.000	0.000	0.000	56.066
657007: B61 LIFE EXTENSION PROGRAM	0.000	0.000	0.000	13.000	0.000	13.000	22.000	10.000	1.000	0.000	0.000	46.000
657014: Next Gen Gravity Bomb	0.000	0.000	0.000	10.066	0.000	10.066	0.000	0.000	0.000	0.000	0.000	10.066
Program MDAP/MAIS Code: 468												
Note This program, BA 5, PE 0101125F, project 657007, Engineering & Manufacturing Development Contract (B61), is a new start. This program, BA 5, PE 0101125F, project 657007, AUR Technical Integration (B61), is a new start. This program, BA 5, PE 0101125F, project 657007, Aircraft Integration (B61), is a new start. This program, BA 5, PE 0101125F, project 657007, Test Support (B61), is a new start. This program, BA 5, PE 0101125F, project 657014, Tail-kit, is a new start. This program, BA 5, PE 0101125F, project 657014, Test and Evaluation, is a new start.												
A. Mission Description and Budget Item Justification The purpose of this program element is to conduct and support United States Air Force (USAF) and Joint Department of War (DoW) / Department of Energy (DOE) acquisition activities for the modernization of nuclear weapons. B61 Life Extension Program (LEP): The B61 LEP will integrate DOE efforts to extend the service life of the warhead with DoW efforts to develop a guided Tail Kit Assembly (TKA) required to maintain current B61 mission characteristics. Programmatic integration of the Air Force-led, joint DoW-DOE program is accomplished through the B61 LEP Project Officers Group (POG) and its subgroups. In accordance with Air Force Materiel Command mission assignment memo (dated 17 Feb 2011) and National Nuclear Security Administration (NNSA)-Air Force Nuclear Weapons Center (AFNWC) Memorandum of Understanding (MOU dated 28 Jun 2012), the USAF is responsible for development, acquisition and delivery of a guided TKA and All Up Round (AUR) technical integration, system qualification and fielding of the B61 variant on multiple platforms. On 27 Oct 23, the Department of War announced the United States will pursue a modern variant of the B61 nuclear gravity bomb, designated the B61-13. In a 2023 classified memorandum the Nuclear Weapons Council authorized programmatic planning for production of that modern variant. The System Program Office expects Congressional authorization and appropriation in Fiscal Year 2027 (FY27). The B61-13 will strengthen deterrence of adversaries and assurance of allies and partners by providing the President with additional options against certain harder and large-area military targets. The B61-13 will replace some of the B61-7s in the current stockpile. The B61-13 will have a yield similar to B61-7, which is higher than the B61-12. The B61-13 will include modern safety, security, and accuracy features of the B61-12. The B61-13 will not increase the overall number of weapons in the U.S. stockpile. The number of B61-12s to be produced will be lowered by the same amount as the number of B61-13s produced.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0101125F I Nuclear Weapons Modernization				
Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.						
This program element included all necessary 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, and 0605898F.						
This program is in Budget Activity 5, System Development and Demonstration (SDD), because it is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	0.000	23.066	0.000	23.066
Total Adjustments		0.000	0.000	23.066	0.000	23.066
• 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	23.066	0.000	23.066
Change Summary Explanation						
This project is a new start initiative beginning in FY 2027. No funding was allocated in FY 2025 or FY 2026.						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization				Project (Number/Name) 657007 / B61 LIFE EXTENSION PROGRAM			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
657007: B61 LIFE EXTENSION PROGRAM	0.000	0.000	0.000	13.000	0.000	13.000	22.000	10.000	1.000	0.000	0.000	46.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0101125F, project 657007, Engineering & Manufacturing Development Contract (B61), is a new start.
This program, BA 5, PE 0101125F, project 657007, AUR Technical Integration (B61), is a new start.
This program, BA 5, PE 0101125F, project 657007, Aircraft Integration (B61), is a new start.
This program, BA 5, PE 0101125F, project 657007, Test Support (B61), is a new start.

A. Mission Description and Budget Item Justification

This project supports the B61 Life Extension Program (LEP), a critical national security initiative to modernize a key component of the nuclear triad. The B61 LEP integrates Department of Energy (DOE) efforts to extend the warhead's service life with Department of War (DoW) efforts to develop a modern, guided Tail Kit Assembly (TKA). This ensures the weapon maintains its operational effectiveness and mission characteristics.

Programmatic integration of this joint Air Force-led program is accomplished through the B61 LEP Project Officers Group (POG) and its subgroups, in accordance with the National Nuclear Security Administration (NNSA) and Air Force Nuclear Weapons Center (AFNWC) Memorandum of Understanding.

This project is a new start initiative beginning in FY 2027. No funding was allocated in FY 2025 or FY 2026.

The total cost of the B61 LEP Middle Tier of Acquisition (MTA) effort is \$46 million, including RDT&E and procurement of prototype units. The B61 LEP is fully funded across the Future Years Defense Program.

Funding will be used to award the prime contract and initiate critical engineering and integration activities. Specifically, this funding will enable:

- System Engineering: To ensure the All-Up Round (AUR) technical integration is successful and all system interfaces are properly defined.
- Aircraft Integration: To begin software development and testing to ensure the new B61 variant is fully compatible with threshold aircraft mission planning systems.
- Test and Evaluation: To fund test planning, range coordination, and support for validation and verification activities, which are critical for eventual nuclear certification.
- Program Management: To provide essential government oversight of cost, schedule, and performance, ensuring the program remains on track to deliver this vital capability to the warfighter.

The acquisition strategy utilizes a low-risk, expedited Mid-Tier Acquisition (MTA) pathway by modifying the existing, highly reliable B61-12 TKA, which significantly reduces technical and programmatic risk. This funding is critical to maintaining the program's schedule and delivering a modernized, credible deterrent capability.

This program element included all necessary 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, and 0605898F.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026			
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization	Project (Number/Name) 657007 / B61 LIFE EXTENSION PROGRAM				
This project is in Budget Activity 5, System Development and Demonstration (SDD), because it involves conducting engineering and development tasks to meet validated requirements for a weapon system. Funds may also be used to address emerging Diminishing Manufacturing and Material Shortage (DMSMS) issues.						
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Engineering & Manufacturing Development Contract (B61) Description: Funding will be used for the prime contract to develop, test, integrate and nuclear certify a guided TKA in support of the B61 LEP. FY 2026 Plans: New start in FY2027. FY 2027 Base Plans: Fund OEM to update the upgrade the TKA through a new OFP software. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: New start in FY2027.		-	0.000	2.787	0.000	2.787
Title: AUR Technical Integration (B61) Description: Funding will be used for all system engineering tasks in support of All Up Round (AUR) technical integration, qualification & fielding, including program support to the B61 LEP POG. FY 2026 Plans: New start in FY2027. FY 2027 Base Plans: Fund government-led system engineering and integration tasks to ensure All Up Round is compatible with all required aircraft and system integration. Key activities include verifying Interface Control Documents and support B61 LEP Project Officers Group. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement:		-	0.000	0.778	0.000	0.778

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026			
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization	Project (Number/Name) 657007 / B61 LIFE EXTENSION PROGRAM				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
New start in FY2027.						
Title: Aircraft Integration (B61) Description: Funding will be used for B61 activities associated with integration on threshold aircraft, including mission planning system upgrades to accommodate the new weapon variant. Also includes activities related to weapon design compatibility with both threshold and objective aircraft, as needed. FY 2026 Plans: New start in FY2027. FY 2027 Base Plans: Execute planned activities for integration onto threshold aircraft, e.g. mission planning software, lab-based verification testing, etc. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: New start in FY2027.		-	0.000	8.527	0.000	8.527
Title: Test Support (B61) Description: Funding will be used for test activities and support for TKA update validation & verification and nuclear certification, as well as B61 AUR system qualification (includes design and operational certification activities). FY 2026 Plans: New start in FY2027. FY 2027 Base Plans: Fund test support activities for TKA and all-up-round validation and verification, e.g. flight tests, secure test range time, and analysis of test data. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement:		-	0.000	0.908	0.000	0.908

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026	
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization				Project (Number/Name) 657007 / B61 LIFE EXTENSION PROGRAM			
B. Accomplishments/Planned Programs (\$ in Millions)											
				FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total			
New start in FY2027.											
Accomplishments/Planned Programs Subtotals				-	0.000	13.000	0.000	13.000			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• PAAF 01 354040: B61	0.000	0.000	-	-	-	-	-	-	-	0.000	0.000
Remarks											
D. Acquisition Strategy											
The new variant of the B61 Tail Kit Assembly (TKA) program is a strategic initiative to address a critical U.S. nuclear deterrent capability, as directed by the 2022 Nuclear Posture Review. In November 2025 President Donald J. Trump published the National Security Strategy (NSS) directing the development of a "modern nuclear deterrent... to protect the American people, American assets overseas, and American allies". In addition, Secretary of War Pete Hegseth published the 2026 National Defense Strategy (NDS) directing action to develop modern nuclear deterrent assets capable of addressing strategic threats to our country. Furthermore, Secretary Hegseth directed the modernization and adaptation of our nuclear forces with "focused attention on deterrence and escalation management". The program's core objective is to rapidly and cost-effectively deliver a modernized gravity bomb by leveraging proven technology. The acquisition strategy utilizes a low-risk, expedited Mid-Tier Acquisition (MTA) pathway. It avoids new technology development by modifying the existing, highly reliable B61-12 TKA for use with the new B61 variant nuclear Bomb Assembly. This approach significantly reduces technical, programmatic, and cost risks. Boeing, the original equipment manufacturer, will perform the necessary modifications. Transitioning from administrative to engineered controlled -13 TKA delivers a software update, eliminating manual processes and mitigating long-term operational risk.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization				Project (Number/Name) 657007 / B61 LIFE EXTENSION PROGRAM					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
B61 LEP Contracts	Various	Not specified. : TBD	0.000	-		-		2.310		-		2.310	0.000	2.310	0.000
Subtotal			0.000	-		-		2.310		-		2.310	0.000	2.310	N/A
Remarks Boeing Technical Services, Support, Surveillance (BTS3) contract supports engineering development through 2027.															
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
All Up Round (AUR) Technical Integration	MIPR	Various : various	0.000	-		-		0.300		-		0.300	0.000	0.300	-
Aircraft Integration	Various	Various : various	0.000	-		-		8.050		-		8.050	0.000	8.050	-
Subtotal			0.000	-		-		8.350		-		8.350	0.000	8.350	N/A
Remarks FY2027 additional AUR Mission Assurance Support and Aircraft Integration cost aligns with program schedule and represents integration activities.															
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 for B61 LEP Development	PO	309th : Edwards, CA	0.000	-		-		0.430		-		0.430	0.000	0.430	-
Subtotal			0.000	-		-		0.430		-		0.430	0.000	0.430	N/A
Remarks FY2027 represents the first year of test activities.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization						Project (Number/Name) 657007 / B61 LIFE EXTENSION PROGRAM			
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	various : various	0.000	-		-		1.910		-		1.910	0.000	1.910	-
Subtotal			0.000	-		-		1.910		-		1.910	0.000	1.910	N/A
Remarks FY2027 funds support AFNWC Nuclear Surety, Safety, Security, Certifications.															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		-		13.000		-		13.000	0.000	13.000	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 5						PE 0101125F / Nuclear Weapons Modernization						657007 / B61 LIFE EXTENSION PROGRAM			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
B61 LIFE EXTENSION PROGRAM																												
Tailkit Assembly (TKA) Conversion																												
Mission Planning																												
Aircraft Integration																												
Request Assets Available (RAA)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization	Project (Number/Name) 657007 / B61 LIFE EXTENSION PROGRAM	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
B61 LIFE EXTENSION PROGRAM				
Tailkit Assembly (TKA) Conversion	4	2027	3	2028
Mission Planning	4	2027	3	2028
Aircraft Integration	1	2028	2	2029
Request Assets Available (RAA)	4	2029	4	2029

Note
The TKA full rate production is complete. Conversion for the for the new TKA will begin in FY 2027.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization				Project (Number/Name) 657014 / Next Gen Gravity Bomb			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
657014: Next Gen Gravity Bomb	0.000	0.000	0.000	10.066	0.000	10.066	0.000	0.000	0.000	0.000	0.000	10.066
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 5, PE 0101125F, project 657014, Tail-kit, is a new start.
This program, BA 5, PE 0101125F, project 657014, Test and Evaluation, is a new start.

A. Mission Description and Budget Item Justification

This project will deliver the Next Generation Nuclear Gravity Bomb, a critical capability to deter strategic attacks against the United States and its allies. This program directly supports a directive from the 2022 Nuclear Posture Review (NPR) to develop a comprehensive strategy for the defeat of hard and deeply buried targets. This is directly aligned with both the 2025 National Security Strategy (NSS) released by President Donald J. Trump, as well as the 2026 National Defense Strategy (NDS) released by Secretary of War Pete Hegseth. Both documents capture the need to modernize and adapt our nuclear forces to our overall national defense strategies. The primary goal is to successfully transition the current prototyping effort, conducted by the Air Force Research Laboratory (AFRL), into a formal acquisition program and establish a dedicated System Program Office (SPO). The SPO will be responsible for refining requirements, defining Key Performance Parameters (KPPs), overseeing technical integration, and managing the system lifecycle to deliver a credible and effective deterrent.

This project is a new start initiative beginning in FY 2027. No funding was allocated in FY 2025 or FY 2026.

During this pre-acquisition period, AFRL-led prototyping efforts were underway to mature key technologies and reduce risk for the formal program.

The FY 2027 budget request of 10.066 million is required to formally establish the program and initiate critical acquisition activities. This funding is foundational to transitioning from research into a structured development program. Key activities in FY 2027 include:

- Establish SPO: To fund operational costs necessary to establish the System Program Office, enabling management of the acquisition process to include oversight of cost, schedule, and performance objectives, and facilitate the execution and tracking of program milestones.
- Acquisition Initiation: To begin formal acquisition of the Tailkit Assembly (TKA) by funding studies, requirements definition, development of the Request for Proposal (RFP), and source selection planning.
- Test and Evaluation Planning: To develop the initial Test and Evaluation Master Plan (TEMP) and coordinate with test agencies for future activities.
- Weapon Planning Kick-Off: To formally begin program execution and integrated planning across all functional areas.

The acquisition strategy is data-driven, with the final procurement path—either a Department of War-led TKA acquisition or a Department of Energy/National Nuclear Security Agency-led full system procurement—contingent on the results from AFRL's prototyping. FY 2027 funding is critical to analyzing that data and launching the most prudent acquisition path to deliver this NPR-directed capability.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026			
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization	Project (Number/Name) 657014 / Next Gen Gravity Bomb				
This program element included all necessary 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 0101125F.						
This project is in Budget Activity 5, System Development and Demonstration (SDD), as it is focused on transitioning a technology-driven prototyping effort into a formal program aimed at meeting validated warfighter requirements.						
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Title: Tail-kit Description: Tail-kit acquisition for next generation gravity weapons development. FY 2026 Plans: N/A FY 2027 Base Plans: Initiate acquisition activities based on down-select decision of prototyping efforts. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: FY2027 new start.		-	0.000	6.500	0.000	6.500
Title: Test and Evaluation Description: Test support for TKA evaluation. Additional information is available upon request. FY 2026 Plans: N/A FY 2027 Base Plans: Fund T&E planning for selected system design, e.g. develop T&E Master Plan, coordination with test agencies to schedule future activities, etc. FY 2027 OOC Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: FY2027 new start.		-	0.000	3.566	0.000	3.566
Accomplishments/Planned Programs Subtotals		-	0.000	10.066	0.000	10.066

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization	Project (Number/Name) 657014 / Next Gen Gravity Bomb
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy The acquisition strategy is uniquely structured to be flexible and data-driven, with the final procurement pathway contingent on the results of advanced prototyping efforts conducted by the Air Force Research Laboratory (AFRL). The data and insights gained from AFRL's work are pivotal and will inform a key strategic decision between two primary acquisition approaches: 1. DoW-Led Tail Kit Assembly (TKA) Acquisition: If the data supports a standard development effort, the program will follow a model like the successful B61 LEP program. A dedicated USAF System Program Office (SPO) will manage the competitive procurement of the weapon's Tail Kit Assembly (TKA), while the Department of Energy/National Nuclear Security Administration (DOE/NNSA) provides the nuclear bomb assembly. 2. DOE/NNSA-Led Full System Procurement: Alternatively, if the AFRL prototyping demonstrates a sufficiently mature and low-risk design, the data may justify an alternative pathway where the DOE/NNSA procures the entire weapon system (the "all-up round"). In either scenario, the USAF SPO's responsibility will be to oversee as the platform integration with the weapon and procurement of transportation & handling gear, trainers, and ancillary equipment. The SPO will oversee the complex and critical task of integrating the complete Next Generation Gravity Bomb with its threshold aircraft, ultimately ensuring the platform achieves full nuclear certification. The SPO will analyze the AFRL prototype data once available to formally recommend the most prudent acquisition path.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0101125F / <i>Nuclear Weapons Modernization</i>						Project (Number/Name) 657014 / <i>Next Gen Gravity Bomb</i>			
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Tailkit	SS/TBD	Not specified. : TBD	0.000	-		-		5.000		-		5.000	0.000	5.000	-
Subtotal			0.000	-		-		5.000		-		5.000	0.000	5.000	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	TBD	Not specified. : TBD	0.000	-		-		2.066		-		2.066	0.000	2.066	-
Subtotal			0.000	-		-		2.066		-		2.066	0.000	2.066	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.000	-		-		3.000		-		3.000	0.000	3.000	-
Subtotal			0.000	-		-		3.000		-		3.000	0.000	3.000	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		-		10.066		-		10.066	0.000	10.066	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)									
3600 / 5					PE 0101125F / Nuclear Weapons Modernization					657014 / Next Gen Gravity Bomb									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Gen Gravity Bomb																												
System Program Office (SPO) Stand Up																												
Weapon Planning Kick-Off																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0101125F / Nuclear Weapons Modernization	Project (Number/Name) 657014 / Next Gen Gravity Bomb

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Next Gen Gravity Bomb				
System Program Office (SPO) Stand Up	2	2027	1	2028
Weapon Planning Kick-Off	3	2027	1	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force Date: April 2026

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

COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	376.997	0.000	173.975	0.000	173.975	186.932	183.575	70.258	105.354	0.000	1,097.091
650011: HLD - OTHR	0.000	367.454	0.000	77.948	0.000	77.948	116.674	147.375	69.858	104.946	0.000	884.255
650012: TACMOR Development	0.000	9.543	0.000	96.027	0.000	96.027	70.258	36.200	0.400	0.408	0.000	212.836

A. Mission Description and Budget Item Justification

Efforts funded in this program 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 Over-the-Horizon RADAR (OTHR) for 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 United States European Command (USEUCOM) requirement.

TACMOR is a US Air Force remotely operated OTHR system being developed for deployment in the Republic of Palau (RoP). The system will provide enhanced Air Domain Awareness in key regions of USINDOPACOM's area of responsibility. TACMOR FY 2026 funds were allocated to - Program 012417F Project 674865 (budget authority 7). FY 2027-FY 2031 corrects the budget authority from 7 to 5 to appropriately reflect program efforts.

HLD OTHR efforts are focused on the development of a capability to provide long range early warning for North America in response to emerging threats. The program's intent is to design, develop, test and field advanced OTHR systems operating at levels of sensitivity far exceeding current US OTHR systems in operation. Program activities include transmit subsystem development and integration, command and control (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 architectures as applicable.

In support of the Air and Cruise Missile Defense of the Homeland (ACMD-H) mission and North American Aerospace Defense Command (NORAD)/United States Northern Command USNORTHCOM (N/NC) Defense of North America mission, the project focuses investments to enhance capability for OTHRs.

HLD OTHR will continue executing experimental efforts with the Department of War science and technology community to characterize ionospheric conditions in Continental United States (CONUS) locations.

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 FY 2025, 3.65 million was expended for civilian pay expenses in this program element, and in FY 2026, 0.11 million is forecasted for civilian pay expenses in this program element.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0102417F <i>I Over-the-Horizon Backscatter Radar</i>

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)	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>
Previous President's Budget	377.394	0.000	0.000	0.000	0.000
Current President's Budget	376.997	0.000	173.975	0.000	173.975
Total Adjustments	-0.397	0.000	173.975	0.000	173.975
• 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	-0.397	0.000	173.975	0.000	173.975

Change Summary Explanation

The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
650011: HLD - OTHR	0.000	367.454	0.000	77.948	0.000	77.948	116.674	147.375	69.858	104.946	0.000	884.255
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Homeland Defense (HLD) Over-the-Horizon radar (OTHR) efforts are focused on the development of a capability to provide long range early, warning for North America in response to threats. The program's intent is to design, develop, test and field advanced OTHR systems operating at levels of sensitivity far exceeding current US OTHR systems in operation. Program activities include command and control (C2) interface design and integration, transmit sub-system development 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 architectures as applicable.

In support of the Air and Cruise Missile Defense of the Homeland (ACMD-H) mission and North American Aerospace Defense Command (NORAD)/United States Northern Command USNORTHCOM (N/NC) Defense of North America mission, the project focuses investments to enhance capability for OTHRs.

HLD OTHR will continue executing experimental efforts and procure necessary upgraded hardware with the Department of War science and technology community, including federally funded research and development center, defense laboratories, and small business expertise to characterize ionospheric conditions in CONUS locations.

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 FY 2025, 3.865 million was expended for civilian pay expenses in this program element.

HLD OTHR development is not a new start. The program received initial funding in FY 2023 under the North Warning Systems Program (0102412F). The DAF realigned the funding in FY 2024 to Over-the-Horizon Backscatter Radar Program (0102417F) to report all DAF OTHR efforts.

The HLD OTHR program utilized FY 2025 28.0 million for a Rapid Acquisition Authority requirement.

The total cost of the HLD OTHR Middle Tier of Acquisition (MTA) effort is 1.103 billion, including research, development, test, and evaluation (RDT&E) and procurement funding for prototype units.

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-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
Title: Homeland Defense Over the Horizon Radar Development Description: HLD OTHR development focuses on radar system design, development, manufacture and acquisition of hardware and software for the Transmit (TX) and Receive (RX) sites. Efforts include continuing modeling and simulation tools, mission studies, as well as analyses to inform systems engineering, early test activities, and warfighter concepts of employment (CONEMP). Modeling will validate performance characteristics and metrics unique to NORAD/USNORTHCOM (N/NC) mission. In addition, federally funded research and development centers and service labs are developing a system-of-systems design to inform a Government Reference Architecture (GRA) for use as an authoritative source of truth. Future acquisition strategies will require acquiring a system-of-systems aligned to, and/or built upon, the GRA. FY 2026 Plans: The following CY efforts are being executed using FY 2025 carryover funds and are also be communicated in the BA7 R-Doc: - Conducting wintertime experimentation study (install, checkout, operate) with DoD S&T community - Utilizing Winter Study results and ionospheric model development to inform predicted performance metrics - Continue ionospheric model development, and start tool improvements to improve system performance at northern latitudes - Start system design via GRA development while evaluating/researching supply chain market to meet intended system design - Complete planned integration activities in support of classified requirements FY 2027 Plans: - Utilize Winter Study results and ionospheric model to inform system design and algorithm development - Continue system design and supply chain market research - Develop training material and technical documentation for operators - Complete set of planned activities are held at a higher level FY 2026 to FY 2027 Increase/Decrease Statement: The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.		367.454	0.000
Accomplishments/Planned Programs Subtotals		367.454	0.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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>
D. Acquisition Strategy HLD OTHR program was approved to execute as a Middle Tier of Acquisition pathway, Rapid Prototyping (MTA-RP). Milestone Decision Authority (MDA) has been delegated to PEO Electronic Systems. The Service Acquisition Executive (SAE) signed the Acquisition Decision Memorandum (ADM) to approve sole source strategy to acquire Transmit subsystem due to significant long lead timelines. SAE directed the HLD OTHR program to conduct acquisition strategy panel no later than Q3FY2026 to address System Integration and Sensor Command and Control (C2) Software.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software algorithm and development	TBD	TBD : TBD	-	-		-		45.430	Nov 2026	-		45.430	Continuing	Continuing	-
Manufacture and acquisition of hardware components for HLD - OTHR Transmit and Receive sites.	TBD	AFLCMC/ESG : Hanscom, AFB, MA	-	307.249	Jan 2025	-		-		-		-	Continuing	Continuing	-
Modeling/Simulation and ionospheric characterization activities.	C/CPAF	AFLCMC/ESG : Hanscom, AFB, MA	-	10.100	Jan 2025	-		-		-		-	Continuing	Continuing	-
Operational Control Center development and Battle Control Center Integration.	C/CPAF	AFLCMC/ESG : Hanscom, AFB, MA	-	30.240	Jan 2025	-		-		-		-	Continuing	Continuing	-
Subtotal			-	347.589		-		45.430		-		45.430	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/ESG : Hanscom, AFB, MA	-	1.962	Nov 2024	-		0.500	Oct 2026	-		0.500	Continuing	Continuing	-
Subtotal			-	1.962		-		0.500		-		0.500	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		-		-		-	Continuing	Continuing	-
SCA Cyber	C/CPAF	TBD : TBD	-	-		-		0.100	Dec 2026	-		0.100	Continuing	Continuing	-
Subtotal			-	2.800		-		0.100		-		0.100	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	15.103	Nov 2024	-		21.108	Nov 2026	-		21.108	Continuing	Continuing	-
MILCON and siting	C/CPAF	TBD : TBD	-	-		-		10.810	Mar 2027	-		10.810	Continuing	Continuing	-
Subtotal			-	15.103		-		31.918		-		31.918	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	367.454		-		77.948		-		77.948	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 ionospheric data collection and analysis																												
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																												
Initial ASP																												
Transmitter Manufacture																												
NEPA																												
Land acquisition and design																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>HLD OTHR</i>				
Initial deployment of sub-scale OTHR system in operationally relevant location for northern ionospheric data collection and analysis	1	2025	4	2027
Continue ionospheric model development and improvements to predict system performance	1	2025	4	2027
continue bi-national (USA, CAN) program planning activities	1	2025	4	2031
Full set of activities held at a higher classification	1	2025	4	2029
Initial ASP	2	2026	2	2026
Transmitter Manufacture	3	2026	2	2028
NEPA	1	2025	1	2027
Land acquisition and design	2	2026	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
650012: TACMOR Development	0.000	9.543	0.000	96.027	0.000	96.027	70.258	36.200	0.400	0.408	0.000	212.836
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
Efforts funded in this program 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 Over-the-Horizon RADAR (OTHR) for 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.												
Tactical Multi-Mission Over the Horizon Radar(TACMOR) is a US Air Force remotely operated OTHR system being developed for deployment in the Republic of Palau (RoP). The system will provide enhanced Air Domain Awareness in key regions of USINDOPACOM's area of responsibility.												
This program 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 2025 0.000 million was expended for civilian pay expenses in this program, in FY 2026 0.111 million is forecasted for civilian pay expenses in this program element.												
TACMOR FY 2026 funds were allocated to - Program 012417F Project 674865 (budget authority 7). FY 2027-FY 2031 corrects the budget authority from 7 to 5 to appropriately reflect program efforts.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2025	FY 2026	FY 2027	
Title: TACMOR Development									9.543	0.000	96.027	
Description: TACMOR development focuses on rapid prototyping activities to field an OTHR system capable of operating under challenging ionospheric conditions near the equator in the Republic of Palau. Key activities include: Prototype design, development, production, installation, and testing activities; Conducting engineering studies and analyses to inform system design; Research and scientific studies to characterize ionospheric and electromagnetic interference phenomenology to inform the design and development of transmit, receive, and software subsystems; Development of ionospheric models to support sensor tracking software; Development, integration, and testing of sensor suite command-and-control (C2) software; Implementation of Model-Based Digital Engineering tools and principles; Development of system modeling and simulation tools and environments; Design and development of unique system security, cybersecurity, resiliency, and hardening features to meet TACMOR's high-threat environment requirements; Design and implementation of communication and control (C2) and data fusion architectures; Design and installation of a high-speed Fiber-Optic communications system.												

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force							Date: April 2026				
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 2025	FY 2026	FY 2027		
<i>FY 2026 Plans:</i> - Continue market research activities for the acquisition of subsystems - Conduct fiber optic/network design reviews and factory acceptance tests - Conduct system performance analyses with latest ionospheric data - Conduct ionospheric and electromagnetic interference data collections in the receive site (Angaur, Palau) - Continue Model Based System Engineering (MBSE) activities - Start Cybersecurity and Risk Management Framework process for fiber optic cable subsystem - Select system integrator <i>FY 2027 Plans:</i> - Will initiate contract execution activities - Will conduct System Level Design Reviews to enter production - Will start purchase of long lead items - Will start sensor management software suite design, development, and update activities - Will continue buildout and deployment of on-island fiber optic/WAC network segments - Will continue ionospheric modeling to inform target tracking software development activities - Will conduct electromagnetic interference surveys at the transmit site (Babeldaob, Palau) - Will fund program support costs to include DCA manpower, test assets, and initiation of iterative integrated developmental and operational testing <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding decreased due to purchase of long-lead radar components and material development in FY2026.											
Accomplishments/Planned Programs Subtotals							9.543	0.000	96.027		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 03 838010: <i>Comm Elect Mods</i>	0.000	9.172	9.400	-	9.400	9.570	-	-	-	Continuing	Continuing
• RDTE 07 0102417F: <i>Over-the-Horizon Backscatter Radar</i>	0.000	130.401	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	130.401
Remarks The FY2026 President's Budget other program funding information can be viewed in the BA 07, Program 0102417F at R-1 Line #170.											

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
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>

D. Acquisition Strategy

TACMOR plans to enter the Middle Tier of Acquisition pathway, as a Rapid Prototyping effort(MTA-RP). The program leverages the Air Force Tactical Exploitation of National Capabilities (TENCAP) and Joint Capability Technology Demonstration (JCTD) system designs to mature final production prototype design. Development, integration, testing, and fielding activities will be executed via a system integration contract award. Contracting strategy maximizes the use of established government contracts, e.g., General Services Administration (GSA) schedules, Indefinite Delivery/Indefinite Quantity (IDIQ) contract vehicles, consortia agreements.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TACMOR Prototype Development & Production	TBD	AFLCMC/ESG : Hanscom AFB, MA	-	0.000	Oct 2025	0.000	Oct 2026	64.734	Oct 2026	-		64.734	Continuing	Continuing	-
TACMOR Fiber Optic/ Wide Area network services development and installation	MIPR	AFLCMC/ESG : Hanscom AFB, MA	-	6.713	Sep 2025	0.000	Sep 2026	20.000	Sep 2027	-		20.000	Continuing	Continuing	-
Subtotal			-	6.713		0.000		84.734		-		84.734	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Services	SS/CPAF	AFLCMC/ESG : Hanscom AFB, MA	-	2.699	Jul 2025	0.000	Jul 2026	2.986	Jul 2027	-		2.986	Continuing	Continuing	-
Subtotal			-	2.699		0.000		2.986		-		2.986	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/ESG : Hanscom AFB, MA	-	0.131	Nov 2024	0.000	Nov 2025	8.307	Nov 2026	-		8.307	Continuing	Continuing	-
Subtotal			-	0.131		0.000		8.307		-		8.307	Continuing	Continuing	N/A
			Prior Years	FY 2025	FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	9.543		0.000		96.027		-		96.027	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026
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>	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
TACMOR Receive Site MILCON																												
Market Research																												
TACMOR System Model Based Systems Engineering (MBSE) and Integration																												
Sea Cable Fiber Optic (SFOC) Network communication infrastructure development and factory acceptance tests																												
TACMOR Transmit Site MILCON																												
Sea Cable Fiber Optic (SFOC) Network Cybersecurity Risk Management Framework Planning and Implementation																												
Conduct Ionospheric and Electro Magnetic Interference (EMI) Data Collections and Analyses at Receive and Transmit Sites																												
Sea Cable Fiber Optic (SFOC) Network Wide Area Communications (WAC) Network																												
Sea Cable Fiber Optic Network System Integration Lab (SIL) development																												
TACMOR System Design and Production																												
Select Prime System Integrator																												
Sea Fiber Optic Cable (SFOC) Deep Sea Water Segment Installation																												
TACMOR Transmit Subsystem Installation and Check Out																												
TACMOR Receive Subsystem Installation and Check Out																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																				Date: April 2026								
Appropriation/Budget Activity 3600 / 5										R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter Radar										Project (Number/Name) 650012 / TACMOR Development								
	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Radar Operations Control Center (OCC) Installation and Check Out	[REDACTED]																											
TACMOR Rapid Prototype Utility Demonstration	[REDACTED]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0102417F / Over-the-Horizon Backscatter er Radar	Project (Number/Name) 650012 / TACMOR Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
TACMOR Development				
TACMOR Receive Site MILCON	1	2025	2	2026
Market Research	1	2025	2	2026
TACMOR System Model Based Systems Engineering (MBSE) and Integration	1	2025	4	2027
Sea Cable Fiber Optic (SFOC) Network communication infrastructure development and factory acceptance tests	1	2026	1	2028
TACMOR Transmit Site MILCON	2	2026	4	2028
Sea Cable Fiber Optic (SFOC) Network Cybersecurity Risk Management Framework Planning and Implementation	2	2026	2	2029
Conduct Ionospheric and Electro Magnetic Interference (EMI) Data Collections and Analyses at Receive and Transmit Sites	2	2026	3	2028
Sea Cable Fiber Optic (SFOC) Network Wide Area Communications (WAC) Network	3	2026	3	2028
Sea Cable Fiber Optic Network System Integration Lab (SIL) development	3	2026	4	2028
TACMOR System Design and Production	4	2026	4	2029
Select Prime System Integrator	4	2026	4	2026
Sea Fiber Optic Cable (SFOC) Deep Sea Water Segment Installation	4	2027	1	2028
TACMOR Transmit Subsystem Installation and Check Out	1	2028	3	2029
TACMOR Receive Subsystem Installation and Check Out	1	2028	3	2029
TACMOR Radar Operations Control Center (OCC) Installation and Check Out	2	2028	3	2029
TACMOR Rapid Prototype Utility Demonstration	3	2029	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	23.933	50.496	0.000	50.496	62.453	99.915	100.828	103.100	Continuing	Continuing
650099: Cognitive Electronic Warfare	0.000	0.000	23.933	50.496	0.000	50.496	62.453	99.915	100.828	103.100	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2024 and FY2025 Cognitive Electromagnetic Warfare executed within PE 0604270F, Electronic Warfare Development, Project 653891, Adv Infrared Counter Measures (AIRCIM). In FY2026 the Cog EW efforts were transferred to PE 0207039F, Cognitive Electronic Warfare, Project 650099, Cognitive Electronic Warfare.

A. Mission Description and Budget Item Justification

This program integrates multiple projects to achieve massed non-kinetic warfare dominance for the Department of War (DoW) Counter Long Range Kill Chain (C-LRKC) and Counter-Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, & Reconnaissance (C-C5ISR) constructs. It includes three initial interrelated activities that capture and exploit EW effectiveness improvements/synergies in contested/congested battlespaces. These activities include: 1) Algorithm and Applications (Algo & Apps) 2) EW Dev Env and 3) MEAP.

The Alg & Apps project continues efforts initiated under PE 64270F in FY2024 (as Cog EW) and extends those actions to identify/discover, investigate, and nominate potential advanced algorithms that can fill gaps in our abilities to automatically sense the electromagnetic environment, employ machine learning (ML) to understand it, and adapt or create new electromagnetic countermeasures in real-time to defeat adversary capabilities. This provides agile and adaptive responses to novel, ambiguous, and complex adversary radar and communication systems.

The EW Dev Env project ties together several on-going AF, other service, and commercial activities by building and utilizing an evolving digital infrastructure to advance promising algorithms through an integrated disciplined maturation/validation process constituting the front end of an "EW Application Pipeline" as the entry point of an AF standard methodology for producing and delivering advanced capabilities to rapidly meet operational requirements and transition advanced technologies to fielded capabilities in collaboration with weapon system program offices and ACC's 350th Spectrum Warfare Wing (SWW). It leverages work done under AFRL's E-Gon and the AF Open Architecture Test Pipeline (AOATP) efforts. This process will ultimately be used to implement Cog EW attributes into fieldable and supportable warfighting capabilities.

The Mod EA Payloads (MEAP) project is a use case exemplar exercising the Algo & Apps and EW Dev Env processes to produce fieldable supportable advanced EA capabilities for applications in multiple crewed and uncrewed platforms. It will produce various form factor payloads for integration into Open Architecture hardware/software platforms providing both offensive and defensive EA for host and other airborne entities in contested/congested environments.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
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, & 0606398F.						
This program is in Budget Activity 5, System Development and Demonstration (SDD)as most of its elements have passed Milestone B, it's equivalent, or there is enough evidence that there is low risk in pursuing SDD type activities in pursuit of engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production."						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	44.267	0.000	0.000	0.000
Current President's Budget		0.000	23.933	50.496	0.000	50.496
Total Adjustments		0.000	-20.334	50.496	0.000	50.496
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-20.334			
• 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	50.496	0.000	50.496
Change Summary Explanation						
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
FY2026 had a Congressional reduction for \$20.334 million: insufficient information.						
Prior to FY2026, the program was executing as a project under PE 0602470F and transferred to its own PE 0207039F in FY2026						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Algorithm & Applications (A&A)				0.000	0.387	0.358

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Description: Overarching development that leverages and extends advanced e.g. Artificial Intelligence (AI), Machine Learning (ML), and Cognitive algorithm developments initiated under the Advanced Common Electromagnetic Spectrum Development Environment (ACEDE) project in PE27040F and inducts promising new algorithms into the evolving EW Dev Env processes FY 2026 Plans: Identify multiple algorithms suitable for further development/maturation/demonstration in collaboration with AFRL's ARCM lab. Initiate maturation efforts similar to what was demonstrated in the ACEDE project. Cooperate with AFRL's E-Gon program to provide promising algorithms to that program for further development. FY 2027 Plans: Investigate/identify additional advanced algorithms beyond those already being pursued and model/simulate mission effects they produce for entry into the EW Development Environment development/maturation processes. FY 2026 to FY 2027 Increase/Decrease Statement: Program decreased due to acceleration of other program thrust				
Title: EW Development Environment (EWDE) Description: The EW Dev Env (aka "EW App Pipeline") project conducts development activities necessary to define and manage the overall Apps Pipeline process. It will refine operational requirements and transition technologies, including those developed and matured under Cog EW, to fielded capabilities in collaboration with various appropriate weapon system program offices and ACC's 350th Spectrum Warfare Wing (SWW). FY 2026 Plans: Cover existing gaps needed to move applications out of the R&D community and modify existing dev/sec/ops environments to ensure they meet strategic enterprise needs. FY 2027 Plans: Further mature infrastructure with a focus on ensuring required M&S capability is in place FY 2026 to FY 2027 Increase/Decrease Statement: Funding increase due to program acceleration to transition EW capabilities from one system to another.		0.000	19.346	39.638
Title: Modular EA Payloads (MEAP) Description: This subproject will, as part of the overall Cognitive EW Capabilities program, demonstrate and deliver advanced (e.g., using AI, ML, and Cognitive technologies) modularized (defined by size, weight, power/cooling, function, and interface		0.000	4.200	10.500

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
standards) techniques for one (or more) threshold platform s. The intent is to provide an Electromagnetic Attack capability that can be adapted to a number of appropriate platforms to yield a massed non-kinetic fires effect.				
FY 2026 Plans: Cover existing gaps needed to move applications out of the R&D community and modify existing dev/sec/ops environments to ensure they meet strategic enterprise needs.				
FY 2027 Plans: Initiate preliminary design activities using the derived threshold values leading to fabrication and demonstration of prototype payloads. Initiate planning for test and demonstration systems.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increase due to program acceleration of transition capabilities onto diverse system(s).				
Accomplishments/Planned Programs Subtotals		0.000	23.933	50.496
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy Cognitive EW is awaiting Program of Record funding to begin in FY2028 to start integrating efforts of Machine learning/artificial intelligence/cognitive algorithms efforts into USAF EW capabilities. The EA Application Pipeline and Modular-EA efforts must continue to orchestrate on-going and new development being conducted across the USAF. Acquisition strategies will vary depending on what is appropriate to the project to be executed but will include support from the following: Industry, University Affiliated Research Center(s) (UARC), Other Transaction Authorities (OTA), Federally Funded Research & Development Centers (FFRDC), Industry Consortia, and other sources. Initial plans leverage existing efforts and their existing contract mechanism continuing and/or expanding the scope of work to meet Advanced EW Capability needs. Once initial infrastructure and capabilities are in place, long term contracts will be required to maintain throughput.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Algorithm & Applications (A&A)	TBD	Not specified. : TBD	-	-		0.367	Mar 2026	0.358	Mar 2027	-		0.358	Continuing	Continuing	-
EW Development Environment	TBD	Not specified. : TBD	-	-		-		5.038	Apr 2027	-		5.038	Continuing	Continuing	-
CI/CD Dev (EWDE)	MIPR	AFLCMC/WAC : TBD	-	-		3.500	Jun 2026	9.000	Apr 2027	-		9.000	Continuing	Continuing	-
Algorithm Dev (EWDE)	TBD	Not specified. : TBD	-	-		-		2.600	May 2027	-		2.600	Continuing	Continuing	-
Adv SOSA Hardware Dev (EWDE)	TBD	Not specified. : TBD	-	-		-		5.000	Mar 2027	-		5.000	Continuing	Continuing	-
Hardware Design (MEAP)	TBD	Not specified. : TBD	-	-		-		6.000	Nov 2026	-		6.000	Continuing	Continuing	-
Modular SWAP Study (MEAP)	TBD	Not specified. : TBD	-	-		3.780	Jul 2026	4.500	Mar 2027	-		4.500	Continuing	Continuing	-
Subtotal			-	-		7.647		32.496		-		32.496	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ARCEM EW addition (EWDE)	C/CPAF	BAH : TBD	-	-		2.000	Jun 2026	5.000	Mar 2027	-		5.000	Continuing	Continuing	-
Subtotal			-	-		2.000		5.000		-		5.000	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 M&S Dev (EWDE)	TBD	Sandia NL & AFRL/RY : TBD	-	-		4.390		5.000	Apr 2027	-		5.000	Continuing	Continuing	-
Subtotal			-	-		4.390		5.000		-		5.000	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207039F / Cognitive Electromagnetic Warfare						Project (Number/Name) 650099 / Cognitive Electronic Warfare			
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 (EWDE)	TBD	Not specified. : TBD	-	-		5.476	Apr 2026	3.000	Apr 2027	-		3.000	Continuing	Continuing	-
PMA (MEAP)	TBD	Not specified. : TBD	-	-		0.420		-		-		-	Continuing	Continuing	-
SAPF/SCIF (EWDE)	MIPR	88 ABW : TBD	-	-		4.000		5.000	Jun 2027	-		5.000	Continuing	Continuing	-
Subtotal			-	-		9.896		8.000		-		8.000	Continuing	Continuing	N/A
Remarks PMA: Other government costs (A&AS, travel, and contractor support)															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		23.933		50.496		-		50.496	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026					
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0207039F / Cognitive Electromagnetic Warfare						Project (Number/Name) 650099 / Cognitive Electronic Warfare			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Algorithm & Applications (A&A)																												
Analysis																												
EW Development Environment (EWDE)																												
Development																												
Modular EW Payloads (MEAP)																												
Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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
Algorithm & Applications (A&A)				
Analysis	1	2026	4	2031
EW Development Environment (EWDE)				
Development	1	2026	4	2031
Modular EW Payloads (MEAP)				
Development	1	2026	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force / BA 5: System Development & Demonstration (SDD)					PE 0207110F / F-47							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	3,053.053	5,037.904	0.000	5,037.904	5,253.098	4,122.692	3,293.908	2,952.590	Continuing	Continuing
656009: F-47	0.000	0.000	3,053.053	5,037.904	0.000	5,037.904	5,253.098	4,122.692	3,293.908	2,952.590	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2026, PE0207110F, F-47, Project 646007, Next Generation Air Dominance (NGAD) Platform, efforts were transferred to PE 0207110F, F-47, Project 656009, F-47, to reflect award of the F-47 Engineering and Manufacturing Development (EMD) contract and switching from BA 4 to BA 5.

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 reference 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 Department of War (DoW) systems based on emerging threats, AF priorities, and development capacity.

The FY 2026 spend plan amount for Research, Development, Test, and Evaluation includes \$3,053,053 thousand of discretionary and \$400,000 thousand of mandatory (reconciliation) for a total of \$3,453,053 thousand.

Funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.

Funding may be used to resolve Diminishing Manufacturing Sources and Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect schedule, and engineering efforts.

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 2027 Air Force				Date: April 2026		
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				
This program element included all necessary 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, 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	2,579.362	0.000	0.000	0.000
Current President's Budget		0.000	3,053.053	5,037.904	0.000	5,037.904
Total Adjustments		0.000	473.691	5,037.904	0.000	5,037.904
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	505.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	-31.309			
• Other Adjustments		0.000	0.000	5,037.904	0.000	5,037.904
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 656009: F-47						
Congressional Add: Reconciliation Incongruence						
Congressional Add Subtotals for Project: 656009						
Congressional Add Totals for all Projects						
Change Summary Explanation						
FY2026 adjustment for \$500 million Congressional add for Reconciliation funding incongruence; \$5 million add for Classified adjustment and -\$31.309 million for Sec 8151 SBIR/STTR						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: F-47				0.000	2,553.053	5,037.904

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Description: The F-47 program includes Engineering and Manufacturing Development (EMD) activities consisting of Air Vehicle, Ground, Test and Training, Digital Infrastructure, and studies to improve persistence, survivability, lethality, connectivity, interoperability and affordability in 2030 and beyond. The program expands the industrial base using the approach to integrate, curate, and manage a "core" set of Mission Systems architectures and standards. The entire NGAD Family of Systems is built on a digital foundation that gives the government full visibility and control, ensuring knowledge parity with industry partners. Open architecture allows seamless integration of new technologies, guaranteeing it can outpace evolving threats.				
FY 2026 Plans: Engineering and Manufacturing Development (EMD) activities include development, integration, build, and test of F-47 aircraft and associated lab infrastructure design and build. 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 2027 Plans: Continue to develop, integrate, build, and test F-47 aircraft during EMD and associated lab infrastructure design and build. 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, perform concept refinements, and studies required to develop operational/system architectures to include family of systems and spectral dominance platforms.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased in FY 2027 due to development of increased capabilities for F-47.				
Accomplishments/Planned Programs Subtotals		0.000	2,553.053	5,037.904
		FY 2025	FY 2026	
Congressional Add: Reconciliation Incongruence		-	500.000	
FY 2026 Plans: Engineering and Manufacturing Development (EMD) activities include development, integration, build, and test of F-47 aircraft and associated lab infrastructure design and build. 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.				
Congressional Adds Subtotals		-	500.000	

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
E. Acquisition Strategy The F-47 (formerly 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		2,941.809		4,921.098		-		4,921.098	Continuing	Continuing	-
Subtotal			-	-		2,941.809		4,921.098		-		4,921.098	Continuing	Continuing	N/A
Remarks															
Contract specifics are sensitive and will not be provided in this document.															
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		111.244		116.806		-		116.806	Continuing	Continuing	-
Subtotal			-	-		111.244		116.806		-		116.806	Continuing	Continuing	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		3,053.053		5,037.904		-		5,037.904	Continuing	Continuing	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 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity										R-1 Program Element (Number/Name)									
3600 / 5										PE 0207110F / F-47									
										Project (Number/Name)									
										656009 / F-47									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	2031

Note
Schedule specifics are sensitive and will not be provided in this document.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0207279F I Isolated Personnel Survivability and Recovery							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	9.757	53.948	16.001	0.000	16.001	39.662	29.671	23.541	24.286	0.000	196.866
65412B: Isolated Personnel	0.000	0.000	2.217	0.000	0.000	0.000	25.528	21.254	16.937	17.472	0.000	83.408
654522: CSAR EMD	0.000	9.757	51.731	16.001	0.000	16.001	14.134	8.417	6.604	6.814	0.000	113.458

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.

The total cost of the Next Generation Survival Radio (NGSR) Program Middle Tier of Acquisition effort is \$182.913 million, including RDT&E and procurement of prototype units. The NGSR program is fully funded across the Future Years Defense Program.

This program element included all necessary 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, and 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 2027 Air Force	Date: April 2026

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>I Isolated Personnel Survivability and Recovery</i>

B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	10.020	99.248	0.000	0.000	0.000
Current President's Budget	9.757	53.948	16.001	0.000	16.001
Total Adjustments	-0.263	-45.300	16.001	0.000	16.001
• Congressional General Reductions	0.000	-45.300			
• 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	-0.263	0.000	16.001	0.000	16.001

Change Summary Explanation

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 NGSr system and its support equipment.

The funding decrease from FY 2026 to FY 2027 reflects level-of-efforts nearing completion in the areas of system development, testing, and end-to-end integration of the NGSr system and its support equipment.

The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
65412B: <i>Isolated Personnel</i>	0.000	0.000	2.217	0.000	0.000	0.000	25.528	21.254	16.937	17.472	0.000	83.408
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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.

No FY 2027 funding requested.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027
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 2026 Plans: - Conduct and complete market research - Conduct initial site vendor analysis FY 2027 Plans: No FY 2027 funding requested FY 2026 to FY 2027 Increase/Decrease Statement: The \$2.217 million reduction in FY 2027 to account for higher Air Force priorities	0.000	2.217	0.000
Accomplishments/Planned Programs Subtotals	0.000	2.217	0.000

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

N/A

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery	Project (Number/Name) 65412B / Isolated Personnel
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Market Research	TBD	AFLCMC/ROU : Wright-Patt, AFB, OH	-	0.000		1.483	Nov 2025	-		-		-	Continuing	Continuing	-
Vendor Site Analysis	TBD	AFLCMC/ROU : Wright-Patt, AFB, OH	-	0.000		0.734	Nov 2025	-		-		-	Continuing	Continuing	-
Subtotal			-	0.000		2.217		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	0.000		2.217		-		-		-	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026																			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force			Date: April 2026
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 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0207279F / Isolated Personnel Survivability and Recovery				Project (Number/Name) 654522 / CSAR EMD			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
654522: CSAR EMD	0.000	9.757	51.731	16.001	0.000	16.001	14.134	8.417	6.604	6.814	0.000	113.458
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 2027 efforts include completing testing and integration for the Beyond Line of Sight (BLOS) and Hand Held radio hardware, as well as, completing integration of cloud-based data processing, web application and national encryption assets. The program will also complete the National Security Agency (NSA) certification of the hand held radio. Finally the program will complete development of all support equipment.

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

	FY 2025	FY 2026	FY 2027
Title: Next Generation Survival Radio (NGSR)	9.757	51.731	16.001
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 2026 Plans: -Begin test and integration of Beyond Line of Sight (BLOS) capability			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force								Date: April 2026			
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 2025	FY 2026	FY 2027	
-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 -Begin the National Security Agency (NSA) Certification of the Hand Held Radio -Continue development and Integration of support equipment -Develop Portable Interrogator capability: mounted/dismounted, hardware and software capabilities FY 2027 Plans: -Complete test and integration of Beyond Line of Sight (BLOS) capability -Complete test and Integration of Hand Held Radio -Complete the integration of Cloud-based data processing -Complete the integration of Web Application -Complete the integration of National encryption assets -Complete the NSA Certification of Hand Held Radio -Complete development and Integration of support equipment -Complete Portable Interrogator capability: mounted/dismounted, hardware and software capabilities FY 2026 to FY 2027 Increase/Decrease Statement: The \$35.730 million decrease in FY 2027 is due to level-of-efforts nearing completion of the NGSR system and its support equipment.											
Accomplishments/Planned Programs Subtotals								9.757	51.731	16.001	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 03 837140: Next Generation Survival Radio (NGSR)	-	-	80.321	-	80.321	2.361	2.406	2.453	2.502	0.000	90.043
• RDTE 05 1203176F: Combat Survivor Evader Locator	0.983	0.000	0.000	-	0.000	0.000	0.000	0.000	-	0.000	0.983
• OPAF 03 1203176F: Combat Survivor Evader Locator	1.778	0.000	0.000	-	0.000	0.000	0.000	0.000	-	0.000	1.778
Remarks											

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207279F / <i>Isolated Personnel Survivability and Recovery</i>	Project (Number/Name) 654522 / CSAR EMD
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 2027. 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 AFB) 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 : NIWC San Diego, CA	-	2.000	Apr 2025	5.300	Feb 2026	-		-		-	0.000	7.300	-
Low Probability of Intercept/ Low Probability of Detection (LPI/LPD) Waveform Upgrade	MIPR	Government : Chantilly, VA	-	0.000	Apr 2025	3.626	Apr 2026	-		-		-	0.000	3.626	-
NGSR Rapid Prototype (Design/Refine/Build)	C/FFP	General Dynamics, MS : Scottsdale, AZ	-	6.105	Jul 2025	20.000	Apr 2026	-		-		-	0.000	26.105	-
JPRC Software Modernization and Migration	Various	Government : Hill AFB, UT	-	1.000	Jul 2025	4.000	Apr 2026	-		-		-	0.000	5.000	-
Encryption Development	MIPR	Government : Chantilly, VA	-	0.277	Jul 2025	1.500	May 2026	-		-		-	0.000	1.777	-
Support Equipment (Radio Loaders)	C/FFP	General Dynamics, MS : Scottsdale, AZ	-	-		5.000	Jun 2026	3.104	Dec 2026	-		3.104	0.000	8.104	-
Subtotal			-	9.382		39.426		3.104		-		3.104	0.000	51.912	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.275	Jan 2025	0.947	Jan 2026	0.967	Jan 2027	-		0.967	0.000	2.189	-
Subtotal			-	0.275		0.947		0.967		-		0.967	0.000	2.189	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	PO	Government : Eglin, FL	-	-		2.258	Mar 2026	5.000	Nov 2026	-		5.000	0.000	7.258	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0207279F / <i>Isolated Personnel Survivability and Recovery</i>				Project (Number/Name) 654522 / CSAR EMD					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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: OT	Allot	Government : Nellis, NV	-	-		-		-		-		-	Continuing	Continuing	-
BLOS Test, Integration	MIPR	Government : NIWC San Diego, CA	-	-		1.000	Mar 2026	-		-		-	0.000	1.000	-
NGSR Prototype Test, Integration	C/FFP	GDMS : Scottsdale, AZ	-	-		1.000	Mar 2026	1.330	Dec 2026	-		1.330	0.000	2.330	-
JPRC Software Test, Integration	PO	Government : Hill AFB, UT	-	-		2.000	Mar 2026	1.500	Nov 2026	-		1.500	0.000	3.500	-
NGSR Message Encryption Test, Integration	MIPR	Government : Chantilly, VA	-	-		2.000	Mar 2026	2.000	Nov 2026	-		2.000	0.000	4.000	-
Subtotal			-	-		8.258		9.830		-		9.830	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Government : Hill AFB, UT	-	0.100	Jul 2025	0.500	Oct 2025	-		-		-	0.000	0.600	-
Operations (A&AS)	TBD	Government : Hill AFB, UT	-	-		-		0.600	Oct 2026	-		0.600	Continuing	Continuing	-
Federally Funded Research and Development Center (FFRDC)	Various	MITRE : Bedford, MA	-	-		2.000	Oct 2025	0.500	Oct 2026	-		0.500	0.000	2.500	-
Joint Integration Test Center	MIPR	Government : Ft Huachuca, AZ	-	-		0.100	Mar 2026	-		-		-	0.000	0.100	-
Training	TBD	GDMS : Scottsdale, AZ	-	-		0.500	Aug 2026	-		-		-	0.000	0.500	-
Travel	Various	Government : Hill AFB, UT	-	-		-		1.000	Oct 2026	-		1.000	Continuing	Continuing	-
Subtotal			-	0.100		3.100		2.100		-		2.100	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force								Date: April 2026			
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	-	9.757	51.731	16.001	-	16.001	Continuing	Continuing	N/A		

Remarks
FY 2025 was rescinded -\$4.085 million and is not reflected in the budget documentation

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0207279F / <i>Isolated Personnel Survivability and Recovery</i>			Project (Number/Name) 654522 / CSAR EMD

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force																							Date: April 2026									
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
					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 2027 Air Force

Date: April 2026

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	2025	4	2026
1.2. LPI/LPD Waveform Upgrade	3	2025	4	2026
1.3 BLOS Integration and Testing	3	2025	4	2027
2. NGSR Rapid Prototyping				
2.1. Competitive Rapid Prototype Development	2	2025	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	2025	3	2026
3.2. JPRC Software Cloud Migration	3	2025	3	2026
3.3 JPRC Cloud Application System Integration and Testing	3	2025	4	2027
4. NGSR Message Encryption Development				
4.1. Encryption Selection/Tailoring	2	2025	1	2026
4.2. Encryption Integration and Testing	2	2025	4	2027
5. Objective System - Rapid Fielding				
5.1. Planning	1	2025	1	2026
5.2. NGSR Operational Testing	1	2025	4	2027
6. Software Augmentation and Upkeep				
6.1. MUOS Ground Station - DETI	1	2026	4	2030
6.2. NGSR 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 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					PE 0207328F I Stand In Attack Weapon							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	319.559	252.062	115.882	0.000	115.882	146.493	29.488	24.234	24.749	Continuing	Continuing
653133: Stand In Attack Weapon	0.000	319.559	252.062	115.882	0.000	115.882	146.493	29.488	24.234	24.749	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Stand-in Attack Weapon (SiAW) is currently in development under the Middle Tier of Acquisition (MTA) pathway. SiAW will provide the capability to strike rapidly re-locatable targets that create the Anti-Access/Area Denial (A2/AD) environment. SiAW targets include Theater Ballistic Missile Launchers, Land Attack and Anti-Ship Cruise Missile Launchers, Jammers, Anti-Satellite Systems, and Integrated Air Defense Systems. SiAW missile system development emphasizes agility and innovation by leveraging Digital Engineering (DE) and Weapon Open System Architecture (WOSA) approaches to quickly integrate future capabilities at reduced cost. Interim capability will be 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).

The SiAW program is posturing to transition from development under the MTA pathway to production under the Major Capability Acquisition (MCA) pathway in FY2027. FY2027 funds will continue SiAW F-35 aircraft integration efforts (begun in FY2026) and next higher-level assembly development, will mature system security and anti-tamper capabilities, and will invest in increased flight test preparation activities.

For the purposes of the MTA, the SiAW missile system will be integrated and tested on a surrogate aircraft. For post-MTA work (MCA) and fielding, SiAW will be integrated on the F-35.

The total cost of the SiAW Middle Tier of Acquisition effort is 964.097 million, including RDT&E and procurement of prototype units. The SiAW program is fully funded across the Future Years Defense Program.

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

FY27 RDT&E funding for PE 0207328F, Project 653133 is in compliance with budgeted end items per the approved test strategy and FY24 Omnibus, Sec. 8057.

This program element includes all necessary 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, and 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 2027 Air Force				Date: April 2026		
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				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	346.341	255.336	0.000	0.000	0.000	
Current President's Budget	319.559	252.062	115.882	0.000	115.882	
Total Adjustments	-26.782	-3.274	115.882	0.000	115.882	
• 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	-15.000	0.000				
• SBIR/STTR Transfer	-11.782	-3.274				
• Other Adjustments	0.000	0.000	115.882	0.000	115.882	
Change Summary Explanation						
FY2025 adjustment of \$26.782 million a result of -\$15.000 million reprogramming for Joint Air-to-Surface Standoff Missile (JASSM) and -\$11.782 for SBIR.						
FY2026 adjustment of -\$3.274 million for SBIR.						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: F-35 Integration				34.463	28.393	48.876
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 and Mission Data capability, engineering to support weapon integration, testing, and airworthiness certification for the missile carriage and employment efforts.						
FY 2026 Plans: Continued integration of AARGM-ER on the F-35 as an interim combat capability, including ground testing, F-35 operational flight program (OFP) integration, launcher adapter development, mission planning, and flight testing. Began initial integration of the SiAW missile on the F-35, including execution of System Requirements Review to define requirements for and begin mission planning, mission data development, ground testing, and airworthiness activities, and began establishing a System Integration Lab (SIL).						
FY 2027 Plans: Continue integration of SiAW missile on the F-35 to include: mission planning, establishing a hardware/software lab to develop, test and program mission data files; begin SIL testing with the aircraft platform; continue required ground tests (i.e. wind tunnel						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0207328F / <i>Stand In Attack Weapon</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
tests, ejector rack testing, vibration tests, structural coupling tests, etc.); continue demonstration of hardware compatibility with the platform beyond what can be leveraged by AARGM-ER (physical, mechanical, electrical and environmental) and continue with criteria and demonstration of standards for airworthiness certification.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to transition from initial integration activities, which identify and define requirements, to beginning integration tasks such as software lab testing, Universal Armament Interface development, and expanding required flight sciences and airworthiness efforts beyond what can be leveraged from AARGM-ER.				
Title: SiAW Development 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 2026 Plans: Executed next higher-level assembly development, continued test and fielding Risk Reduction (RR) efforts, matured system security and anti-tamper capabilities and conducted Developmental Test (DT-1) for SiAW weapon system. Used 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 2027 Plans: Continue maturation of subsystems to meet requirements for a fieldable system. These activities include next higher-level assembly development, component/subsystem test efforts and maturation of anti-tamper capabilities. Conduct Integrated Test 2 (IT-2) and Production Readiness Review (PRR) in preparation for MS-C. Begin System Improvement Program (SIP) for AARGM-ER and SiAW. FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to FY2027 expected completion of SiAW MTA effort and planned transition to MCA pathway and SiAW production.		197.150	219.517	15.882
Title: Target/Test Assets, Testing, & Support Description: Provides associated government and contract support for F-35 development, integration and operational testing for AARGM-ER and SiAW. Includes purchase of 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 2026 Plans:		87.946	4.152	51.124

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force								Date: April 2026				
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 2025	FY 2026	FY 2027		
Continued SiAW missile test support, purchased test equipment, continued target construction, and funded range/ground/Test aircraft and maintenance support. Continued target/threat emitter acquisition and the system verification and validation to include weapons cybersecurity support, and development of the new flight termination system (FTS) and completion of the FTS critical design review. FY 2027 Plans: Continue SiAW missile test support, purchase of test equipment, target fabrication and CAD modeling, and funding range/aircraft/ground support. Accreditation of target/threat emitter acquisition to include weapons cybersecurity support and test investments, and qualification and certification of the new FTS. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to expansion of SiAW test efforts to support increased test preparation activities and test events such as FTS certification, modeling and simulation analysis, impact predictions and analysis, relevant target acquisition to include fabrication, building target set threat models, and increased test range, control room and aircraft preparations to include configuring hardware for proper target tracking, data collection and security management necessary to capture and transfer required mission/test data.												
Accomplishments/Planned Programs Subtotals								319.559	252.062	115.882		
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• RDTE 07 0205601N: AARGM-ER (Navy)	16.712	25.686	72.014	-	72.014	36.565	24.060	10.957	11.151	Continuing	Continuing	
• MPAF 02 0207328F: Stand-In Attack Weapon	0.000	152.646	401.607	-	401.607	735.716	585.409	775.016	869.698	Continuing	Continuing	
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 limited quantity of AARGM-ER weapons as the interim capability and begins SiAW production in FY2027.												
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) have												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0207328F <i>I Stand In Attack Weapon</i>	
been approved as an MTA program and will focus on the integration of key technologies, the implementation of Digital Engineering (DE), a competitive selection, and targeted initial capability on a surrogate aircraft in less than 5 yrs, followed by transition to an MCA and integration on the F-35. The SiAW MTA for Rapid Prototyping is fully funded. SiAW is postured to conduct the transition from MTA to MCA in FY2027, with the ability to fall back on the AARGM-ER interim capability as needed. Budget requests will be updated as required in the outyears to reflect the MCA transition. The US Navy's AARGM-ER provides interim combat capability on the F-35 until SiAW production starts. The SiAW development effort includes design, development, test, integration, and implementation of appropriate modular open systems approach, related components, and efforts, including, but not limited to, logical and physical interfaces defined in Weapon Open System Architecture (WOSA). 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. Key tenets of the SiAW program will be the establishment/use of a MBSE environment, implementation of WOSA, and Agile Software Development.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force **Date:** April 2026

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207328F / <i>Stand In Attack Weapon</i>	Project (Number/Name) 653133 / <i>Stand In Attack Weapon</i>

Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	23.061	Jan 2025	27.401	Dec 2025	48.876	Dec 2026	-		48.876	Continuing	Continuing	-
Mission Planning	MIPR	Various : Various	0.000	1.336	Jun 2025	2.380	Feb 2026	0.000	Dec 2026	-		0.000	Continuing	Continuing	-
SiAW Development	Various	Various : Various	0.000	213.579	Nov 2024	148.956	Jan 2026	0.000	Dec 2026	-		0.000	Continuing	Continuing	-
Subtotal			0.000	237.976		178.737		48.876		-		48.876	Continuing	Continuing	N/A

Remarks
Northrop Grumman Defense Systems (NGDS)

Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	10.119	Oct 2024	9.614	Oct 2025	10.000	Oct 2026	-		10.000	Continuing	Continuing	-
Program support costs	Various	Various : TBD	0.000	14.163	Oct 2024	7.547	Dec 2025	3.798	Oct 2026	-		3.798	Continuing	Continuing	-
Subtotal			0.000	24.282		17.161		13.798		-		13.798	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 2025	-		-		-		-	Continuing	Continuing	-
Test Assets SiAW	C/FFP	NGDS : Northridge, CA	0.000	47.887	Mar 2025	45.785	Apr 2026	-		-		-	Continuing	Continuing	-
Government Test/Target Support (includes flight test equipment, Targets/ shapes builds, 96 TW range, and SEEK Eagle support)	Various	Various : Various	0.000	6.882	Dec 2024	8.520	Jan 2026	51.124	Dec 2026	-		51.124	Continuing	Continuing	-
Subtotal			0.000	54.769		54.305		51.124		-		51.124	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	2.532	Dec 2024	1.859	Jan 2026	2.084	Dec 2026	-		2.084	Continuing	Continuing	-
Subtotal			0.000	2.532		1.859		2.084		-		2.084	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	319.559		252.062		115.882		-		115.882	Continuing	Continuing	N/A
Remarks															
Test assets will be procured through FY2027. There may be a need to procure additional test assets beyond FY2027 - future budget requests will reflect those expenditures, as required.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)		Project (Number/Name)	
3600 / 5		PE 0207328F / Stand In Attack Weapon		653133 / Stand In Attack Weapon	

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
SiAW Integration on F-35																												
AARGM-ER F-35 Integration for Interim Capability																												
SiAW Development																												
SiAW Development																												
SiAW Phase 2 - Prototype Development																												
AARGM-ER EMD / AARGM-ER & SiAW System Improvement Program																												
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 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207328F / <i>Stand In Attack Weapon</i>	Project (Number/Name) 653133 / <i>Stand In Attack Weapon</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>F-35 Integration</i>				
SiAW Integration on F-35	1	2025	4	2029
AARGM-ER F-35 Integration for Interim Capability	1	2025	4	2028
<i>SiAW Development</i>				
SiAW Development	1	2025	1	2027
SiAW Phase 2 - Prototype Development	1	2025	1	2027
AARGM-ER EMD / AARGM-ER & SiAW System Improvement Program	1	2025	4	2031
<i>Target & Test Assets, Test, & Support</i>				
Flight test support, range modifications, & targets for AARGM-ER and SiAW	1	2025	4	2028

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	17.693	45.322	0.000	45.322	19.265	44.850	45.698	46.647	Continuing	Continuing
650098: Electromagnetic Battle Management (EMBM)	0.000	0.000	17.693	45.322	0.000	45.322	19.265	44.850	45.698	46.647	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2024 and FY2025 the Electromagnetic Battle Management (EMBM) program executed within PE 060427F, Electronic Warfare Development, Project 653891, Adv Infrared Counter Measures (AIRCМ).

In FY2026 the EMBM efforts were transferred to PE 0207407F, Electromagnetic Battle Management, Project 650098, EMBM.

A. Mission Description and Budget Item Justification

The Department of the Air Force (DAF) Electromagnetic Battle Management (EMBM) program is an automated family of systems/applications linked by common architectures, standards and data that will expeditiously receive, analyze, display, employ, and securely distribute friendly, neutral, and adversary Electromagnetic Spectrum (EMS) information. DAF EMBM will consist of five component capabilities; the ability to attain, maintain, and monitor the spectrum for EMS Situational Awareness (SA), assessment, and mission planning, decision support with command and control, and training interfaces to all levels of EMS Operations (EMSO). The coordination and synchronization of EMSO will provide real-time Non-Kinetic Fires Orchestration across domains in any range of military operations. DAF EMBM will feed into USSTRATCOM's EMBM-Joint (EMBM-J) at the Combatant Command-level enabling synchronization of Joint Non-Kinetic Fires and enabling resilient decision advantage in contested EM environments.

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 00605827F, 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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	0.000	20.439	0.000	0.000	0.000	
Current President's Budget	0.000	17.693	45.322	0.000	45.322	
Total Adjustments	0.000	-2.746	45.322	0.000	45.322	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	-2.500				
• 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	-0.246				
• Other Adjustments	0.000	0.000	45.322	0.000	45.322	
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
FY2026 Congressional Reduction of \$2.500 million for unjustified growth.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: EMBM Development				0.000	17.693	45.322
Description: Perform assessments and analyses of government off the shelf (GOTS) systems and applications capability to analyze friendly, neutral, and adversary use of the electromagnetic spectrum (EMS). Received data will be displayed in a common operation picture to enable situational awareness, planning, and decision making. Assisted by machine learning/artificial intelligence EMBM will share EA techniques, system identification and targeting criteria across the Joint warfighting force to perform effective Non-Kinetic Fires in a contested Electromagnetic Operational Environment (EMOE).						
FY 2026 Plans: DAF Electromagnetic Battle Management program will execute a second weapons control test demo and start work under the System Development Contract. Contract work will focus on software integration, SA tool and system architecture back bone development efforts to set the metrics required to document Early Operational Capability (EOC). Data collected will influence the system-to-system integration work and AI/Machine Language efforts to reach the goal of EOC by the FY28Q1. Concurrently the EMBM IT Infrastructure thrust will begin development of the modern architecture required for the program to link into the DAF						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0207407F / <i>Electromagnetic Battle Management (EMBM)</i>		
C. Accomplishments/Planned Programs (\$ in Millions) Battle Network. The program will also fund the building of and ramp-up of an EW System Program Office to be in place for Initial Operating Capability and LRIP sprint efforts post EOC. FY 2027 Plans: DAF Electromagnetic Battle Management program with continued efforts towards delivering an Early Operational Capability (EOC) system by 1QFY28. To do so, the best of breed Government-off-the-Shelf systems delivering Situational Awareness, Command and Control (C2) and Decision Support data, along with displaying a common operating picture will undergo system-of-system integration. The resulting prototype will then undergo live-fly demonstrations to test compatibility and deliver test metrics and validate the on-going platform integration efforts showcasing C2 capability to airborne units. Development on the Training suite will start and run parallel with the other integration work. EMBM IT Finally, the Electromagnetic Warfare System Program Office will be activated and readied for initial Low-Rate Initial Production efforts. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased to account for multiple live-fly demonstrations and the start-up of platform integration efforts with subject demo aircraft to reach EOC by 1QFY28.		FY 2025	FY 2026	FY 2027
Accomplishments/Planned Programs Subtotals		0.000	17.693	45.322
D. Other Program Funding Summary (\$ in Millions) N/A Remarks In FY26, this funding line transitioned from a project under PE 0604270F Electronic Warfare Development, BPAC 653891, to its own PE 0207407F - Electromagnetic Battle Management.				
E. Acquisition Strategy Various acquisition approaches will be used. Government organic capabilities will be utilized to the greatest practical 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. Initial plans leverage existing efforts and their existing contract mechanism continuing and/or expanding the scope of work to meet Advanced EW Capability needs. Once initial infrastructure and capabilities are in place, long-term contracts will be required to maintain throughput.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Integration	TBD	Not specified. : TBD	-	-		10.439	Mar 2026	12.591	Aug 2027	-		12.591	Continuing	Continuing	-
Platform Integration	TBD	Not specified. : TBD	-	-		-		15.231	Aug 2027	-		15.231	Continuing	Continuing	-
SA Tool	TBD	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Architecture Backbone	TBD	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Training Module	TBD	Not specified. : TBD	-	-		-		2.400	Aug 2027	-		2.400	Continuing	Continuing	-
IT Infrastructure	TBD	Not specified. : TBD	-	-		1.254		-		-		-	Continuing	Continuing	-
Subtotal			-	-		11.693		30.222		-		30.222	Continuing	Continuing	N/A
Remarks IT Infrastructure work is developing the transport protocol of DAF EMBM data to the EMBM-J platform, data transfer requirements between air and ground units, and the user training program															
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Aug 2026	1.020	Aug 2027	-		1.020	Continuing	Continuing	-
Subtotal			-	-		1.000		1.020		-		1.020	Continuing	Continuing	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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Aug 2026	5.000	Aug 2027	-		5.000	Continuing	Continuing	-
Weapons Control Test	TBD	Not specified. : TBD	-	-		-		5.000	Aug 2027	-		5.000	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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>			
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			-	-		5.000		10.000		-		10.000	Continuing	Continuing	N/A
Remarks Architecture Demonstration also includes Modeling and Sim efforts, Platform demonstration includes live fly events with user aircraft															
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		0.000	Aug 2026	4.080	Aug 2027	-		4.080	Continuing	Continuing	-
Subtotal			-	-		0.000		4.080		-		4.080	Continuing	Continuing	N/A
Remarks EW System Program Office to execute RDT&E and Procurement efforts															
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		17.693		45.322		-		45.322	Continuing	Continuing	N/A
Remarks DAF Electromagnetic Battle Management (EMBM) System-of-Systems Integration will pull all contributing systems and applications into a cohesive and effective single user interface as well as work on porting the USAF data to the EMBM-J platform. DAF EMBM Platform Integration will explore how to transfer raw spectrum data between aircraft and ground stations and return EMBM operational data from ground station to aircraft The Training Module will be developed alongside the actual EMBM system so when it is fielded, those presented with the system will know how to utilize it in pursuit of Electromagnetic Spectrum Operation (EMSO) execution. IT Infrastructure will set the standards and requirements required for the EMBM system to connect and interact with the future DAF Battle Network. PMA will allow for the Program Office to conduct the ongoing Early Operational Concept developmental efforts.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force							Date: April 2026		
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0207407F / <i>Electromagnetic Battle Man agement (EMBM)</i>		Project (Number/Name) 650098 / <i>Electromagnetic Battle Management (EMBM)</i>			
	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Architecture Demonstration along with Modeling and Sim efforts will evaluate the best of breed Government-off -the-Shelf programs required to execute the five tenants of EMBM; Electromagnetic Spectrum Situational Awareness, EW planning, decision support, operations deconfliction, and system training. Minimum viable system requirements and metrics will be established for the EOC prototype and future system iterations									
Platform demonstrations will assess how to and how well current systems can transfer required data between airborne systems and the ground stations									
An EW System Program Office does not currently exist, the DAF EMBM Program will contribute to standing one up starting in FY2028									

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
System Development																												
ESI																												
Architecture Demo																												
AD																												
IT Infrastructure																												
New																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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
System Development				
ESI	1	2026	4	2031
Architecture Demo				
AD	1	2026	4	2027
IT Infrastructure				
New	4	2026	4	2031

Note

The Dept Air Force Electromagnetic Battle Management (DAF-EMBM) Program is aiming for end of CY27 to reach Early 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 Government off the Shelf systems to find best of breed for the required system capability, and then integrating them into a single functional system-of-systems suite to satisfy the required standards.

DAF-EMBM system integration will tie multiple disparate systems together into a unified control and display unit integrating Non-Kinetic Effects (NKE) with Electromagnetic Spectrum Operations (EMSO) into all other military operations, combining capabilities to manage, protect, exploit, and attack through the electromagnetic spectrum (EMS). DAF-EMBM will consist of five components with the ability to attain and maintain: EMS Situational Awareness, EMS operational planning, EMS decision support analytics, Command and Control, and user training. Efforts will revolve around the development of advanced software, and robust meshed comm networking and data links.

The Weapons Control Test 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.

PEO 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 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0207701F I Full Combat Mission Training							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	7.636	10.276	6.501	0.000	6.501	6.725	6.852	6.983	7.124	Continuing	Continuing
655012: Full Combat Mission Training	0.000	7.636	10.276	6.501	0.000	6.501	6.725	6.852	6.983	7.124	Continuing	Continuing

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.

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	7.754	12.898	0.000	0.000	0.000
Current President's Budget	7.636	10.276	6.501	0.000	6.501
Total Adjustments	-0.118	-2.622	6.501	0.000	6.501
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-2.479			
• 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	-0.118	-0.143			
• Other Adjustments	0.000	0.000	6.501	0.000	6.501

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0207701F I Full Combat Mission Training	
Change Summary Explanation FY2025 -.118 million reduction for SBIR. FY2026 adjustments for Congressional reduction of -\$2.479 million for unjustified growth and -\$.143 for Sec 8151 SBIR/STTR The FY26 President's Budget submittal did not reflect the FY27 through FY30 funding. Therefore, an explanation of the changes between the two budget positions for FY27 cannot be made in a relevant manner.		

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
655012: Full Combat Mission Training	0.000	7.636	10.276	6.501	0.000	6.501	6.725	6.852	6.983	7.124	Continuing	Continuing
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 2025 \$0.00M was expended for civilian pay expenses in this program element. FY 2026 \$0.00M is forecasted for civilian pay expenses in this program element.

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

	FY 2025	FY 2026	FY 2027
Title: Cross Domain Solutions (CDS)	3.380	1.256	1.210
Description: Development, demonstration, and insertion of cross-domain solutions Multi-Level Security (MLS) capabilities supporting Live Virtual Constructive/blended training for fourth, fifth, and sixth generation platforms.			
FY 2026 Plans: Develop automated tools for CDS rule set development. Continue work to rapidly search SCGs to identify CDS rule set requirements.			
FY 2027 Plans: Continue development of automated tools for CDS rule set development. Test algorithms, processes and tools in representative simulation environments.			
FY 2026 to FY 2027 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
Nominal decrease due to requirements fluctuation.			FY 2027
Title: Distributed Mission Operations Development Description: Development, demonstrations, studies and insertions of Live Virtual Constructive related technologies and proficiency based continuation training strategies into DMO and JSE representative environments. FY 2026 Plans: Focus on research and development of tools and techniques for distribution of JSE via DMO. Set up simulation environment to support development and testing of JSE distribution approaches. FY 2027 Plans: Continue research and development of tools and techniques for distribution of JSE via DMO. Support multiple test events over DMO network. FY 2026 to FY 2027 Increase/Decrease Statement: Decrease due to completion of simulation environment to support development and testing of JSE distribution approaches.		1.934	6.600
Title: Development and validation of DMO and Blended training assessments tools. Description: Research and development of objective enhancement and assessment tools for blended training environments (e.g., Distributed Mission Operations (DMO) and Joint Simulation Environment (JSE)). FY 2026 Plans: Continue analytic activities and leverage lessons learned to refine and revise components, tools, and methods to improve virtual ecosystem integration that support local and distributed blended training events. Evolve demonstrations of blended training and virtual training interoperability with ongoing findings and project to new capabilities, emphasizing JSE compatibility. FY 2027 Plans: Refactor tools to support JSE and distributed JSE environments. Support cloud-based and SCARS-based deployments. FY 2026 to FY 2027 Increase/Decrease Statement: Increase due to additional development and testing to ensure JSE compatibility.		1.161	1.210
Title: Network Studies 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.		1.161	1.390

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force							Date: April 2026				
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0207701F / <i>Full Combat Mission Training</i>			Project (Number/Name) 655012 / <i>Full Combat Mission Training</i>				

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027
<i>FY 2026 Plans:</i> 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. <i>FY 2027 Plans:</i> Continue integrating purpose-built components into the range ecosystem to support local and distributed blended training events. Continue to demonstrate blended training interoperability in live and virtual flight exemplars. <i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Decrease due to budget fluctuation and shifts in priority reflecting change in levels of activity.			
Accomplishments/Planned Programs Subtotals	7.636	10.276	6.501

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOB</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDTE 07 0207701F: <i>Full Combat Mission Training</i>	3.808	7.985	6.644	-	6.644	6.856	6.971	7.089	7.232	Continuing	Continuing
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.364	Nov 2024	1.256	Jan 2026	1.210	Nov 2026	-		1.210	Continuing	Continuing	-
Develop DMO Blended training capabilities: demonstration, studies and insertion of distributed mission ops related technologies.	Various	Air Force Research Lab : Dayton, OH	-	1.934	Nov 2024	6.600	May 2026	2.500	Nov 2026	-		2.500	Continuing	Continuing	-
Validation of warfighter seasoning and development of objective performance enhancements for DMO environment.	Various	Air Force Research Lab : Dayton, OH	-	1.161	Nov 2024	1.210	Apr 2026	1.401	Nov 2026	-		1.401	Continuing	Continuing	-
Other Network Studies: Supporting integration of newly fielded high-fidelity training systems and networks.	Various	Air Force Research Lab : Dayton, OH	-	1.161	Nov 2024	1.210	Apr 2026	1.390	Nov 2026	-		1.390	Continuing	Continuing	-
Subtotal			-	7.620		10.276		6.501		-		6.501	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.016		-		-		-		-	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	-	7.636		10.276		6.501		-		6.501	Continuing	Continuing	N/A	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026																			
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									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Gateway Development and Legacy Trainers Integration																												
Develop gateways to integrate legacy trainers with high-fidelity trainers																												
Develop live to synthetic integrated training solutions																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	2025	4	2030
Develop live to synthetic integrated training solutions	1	2025	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	4.917	4.771	0.000	4.771	4.767	4.763	4.760	4.856	Continuing	Continuing
655050: <i>TDL System Integration</i>	0.000	0.000	4.917	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
655052: <i>SATURN</i>	0.000	0.000	0.000	4.771	0.000	4.771	4.767	4.763	4.760	4.856	Continuing	Continuing

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.

This program element included all necessary 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, and 0605898F.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	4.985	0.000	0.000	0.000
Current President's Budget		0.000	4.917	4.771	0.000	4.771
Total Adjustments		0.000	-0.068	4.771	0.000	4.771
• 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	-0.068	4.771	0.000	4.771
Change Summary Explanation						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0303008F / SATURN				Project (Number/Name) 655050 / TDL System Integration			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
655050: TDL System Integration	0.000	0.000	4.917	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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.

This program element included all necessary 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, and 0605898F.

Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0303008F / SATURN	Project (Number/Name) 655050 / TDL System Integration	
and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes.			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
Title: Second Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) Lead Service Description: 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 2026 Plans: -Update and release revised reference implementations based on FY25 testing and feedback -Begin development of automated tools to monitor compliance with specifications -Expand technical advisory support to include direct commercial sales -Conduct system of systems engineering analysis -Compile joint strategies for fielding and terminal development -Collect cost and schedule data from the Joint services -Document mission threads and information exchange requirements -Resolve cross-service disconnects -Make policy recommendations and developing roadmaps -Advocate for SATURN waveform and terminal developments within the DoD budget process -Ensure appropriate technology protection measures are in place to secure resources -Ensure the effective training and implementation of SATURN across the services FY 2027 Plans: Budget Year FY 2027 Base Plans are listed under SATURN PE 0303008F BPAC 655052. FY 2026 to FY 2027 Increase/Decrease Statement: Decrease from FY 2026 to FY 2027 due to transferring all funds for FY 2027 and beyond from current BPAC 655050 to BPAC 655052.		-	4.917
Accomplishments/Planned Programs Subtotals		-	4.917
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0303008F / SATURN	Project (Number/Name) 655050 / TDL System Integration
D. 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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0303008F / SATURN				Project (Number/Name) 655050 / TDL System Integration					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	MITRE : Bedford, MA	-	-		1.217	Jan 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	-		1.217		-		-		-	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
EPASS	C/CPAF	ARS : Hanscom AFB, MA	-	-		3.700	Nov 2025	-		-		-	Continuing	Continuing	-
Subtotal			-	-		3.700		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		4.917		-		-		-	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force						Date: April 2026					
Appropriation/Budget Activity						R-1 Program Element (Number/Name)					
3600 / 5						PE 0303008F / SATURN					
						Project (Number/Name)					
						655050 / TDL System Integration					

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0303008F / SATURN	Project (Number/Name) 655050 / TDL System Integration

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-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0303008F / SATURN				Project (Number/Name) 655052 / SATURN			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
655052: SATURN	0.000	0.000	0.000	4.771	0.000	4.771	4.767	4.763	4.760	4.856	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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.

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 2025, 0.903M was expended for civilian pay expenses in this program element. In FY 2026, 1.715M is forecasted for civilian pay expenses in this program element.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0303008F / SATURN	Project (Number/Name) 655052 / SATURN		
Program RDT&E funding may be utilized to implement innovation insertion, capability insertion, software increments, spiral upgrades, modular component swaps, and other insertions consistent with Modular Open System Architecture. Program RDT&E funding may be utilized to design, develop, integrate, and test weapon system and/or component level open architectures. Program RDT&E funding may be utilized to fund the concept refinement, design, development, integration, and testing of interdependent technologies and common architectures that underpin weapon system and portfolio-wide mission outcomes					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
Title: Second Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) Lead Service			0.000	0.000	4.771
Description: 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 2026 Plans: -Update and release revised reference implementations based on FY25 testing and feedback -Begin development of automated tools to monitor compliance with specifications -Expand technical advisory support to include direct commercial sales -Conduct system of systems engineering analysis -Compile joint strategies for fielding and terminal development -Collect cost and schedule data from the Joint services -Document mission threads and information exchange requirements -Resolve cross-service disconnects -Make policy recommendations and developing roadmaps -Advocate for SATURN waveform and terminal developments within the DoD budget process -Ensure appropriate technology protection measures are in place to secure resources -Ensure the effective training and implementation of SATURN across the services					
FY 2027 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 -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					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0303008F / SATURN		Project (Number/Name) 655052 / SATURN	
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026
-Will ensure the effective training and implementation of SATURN across the services					
FY 2026 to FY 2027 Increase/Decrease Statement: N/A					
Accomplishments/Planned Programs Subtotals				0.000	0.000
				4.771	
C. Other Program Funding Summary (\$ in Millions) N/A					
Remarks					
D. 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 cuttingedge 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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0303008F / SATURN				Project (Number/Name) 655052 / SATURN					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	MITRE : Bedford, MA	-	-		-		3.391	Feb 2027	-		3.391	Continuing	Continuing	-
Subtotal			-	-		-		3.391		-		3.391	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
EPASS	C/CPAF	ARS : Hascom AFB, MA	-	-		-		1.380	Feb 2027	-		1.380	Continuing	Continuing	-
Subtotal			-	-		-		1.380		-		1.380	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		4.771		-		4.771	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 5					PE 0303008F / SATURN					655052 / SATURN			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0303008F / SATURN	Project (Number/Name) 655052 / SATURN

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
SATURN Lead Service				
Technical Standardization and Interoperability	1	2026	4	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0303267F I <i>Auctioned Spectrum Relocation Fund</i>											
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	9.695	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.695
658062: <i>Auctioned Spectrum Relocation Fund</i>	0.000	9.695	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.695
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funding supports Spectrum relocation and sharing activities.

In FY 2025, Project 658062 was completed.

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 2025</u>	<u>FY 2026</u>	<u>FY 2027 Base</u>	<u>FY 2027 OOC</u>	<u>FY 2027 Total</u>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	9.695	0.000	0.000	0.000	0.000
Total Adjustments	9.695	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	9.695	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Change Summary Explanation

Received funds during execution year through a transfer from OMB

<u>C. Accomplishments/Planned Programs (\$ in Millions)</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>
<i>Title:</i> Auctioned Spectrum Relocation Fund	9.695	0.000	0.000
<i>Description:</i> Funding supports Spectrum relocation and sharing activities			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 0303267F <i>I Auctioned Spectrum Relocation Fund</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
FY 2026 Plans: N/A FY 2027 Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: N/A				
Accomplishments/Planned Programs Subtotals		9.695	0.000	0.000
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy Funding supports Spectrum relocation and sharing activities.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)				Project (Number/Name)					
3600 / 5						PE 0303267F / Auctioned Spectrum Relocation Fund				658062 / Auctioned Spectrum Relocation Fund					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	C/CPAF	Not specified. : TBD	-	9.695		-		-		-		-	Continuing	Continuing	-
Support spectrum relocation and sharing activities	TBD	Various : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Subtotal			-	9.695		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.695		-		-		-		-	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity		R-1 Program Element (Number/Name)		Project (Number/Name)	
3600 / 5		PE 0303267F / Auctioned Spectrum Relocation Fund		658062 / Auctioned Spectrum Relocation Fund	

FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
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

Auctioned Spectrum Relocation Fund	
Support spectrum relocation activities	

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0303267F / Auctioned Spectrum Relocation Fund	Project (Number/Name) 658062 / Auctioned Spectrum Relocation Fund

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Auctioned Spectrum Relocation Fund				
Support spectrum relocation activities	1	2025	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0303867F I AMBIT - Post-Auctioned SRF

COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	19.453	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.453
658066: AMBIT - Pre-Auctioned SRF	0.000	19.453	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.453
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program pays for relocation or sharing costs related to relocating from and/or sharing a frequency that has been auctioned off to the commercial sector, that was previously used by DoD.

No FY27 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.

B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	19.453	0.000	0.000	0.000	0.000
Total Adjustments	19.453	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	19.453	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Change Summary Explanation

Funding transferred by OMB after autions are complete.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2025	FY 2026	FY 2027
Title: Relocation of electromagnetic spectrum	19.453	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0303867F I AMBIT - Post-Auctioned SRF		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Description: This effort pays for relocation costs for previously reserved electromagnetic spectrum that has been auctioned off to the commercial sector. FY 2026 Plans: N/A FY 2027 Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: N/A				
Accomplishments/Planned Programs Subtotals		19.453	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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0303867F / <i>AMBIT - Post-Auctioned SRF</i>						Project (Number/Name) 658066 / <i>AMBIT - Pre-Auctioned SRF</i>			
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AMBIT SRF	C/CPAF	Not specified. : TBD	-	19.453		-		-		-		-	Continuing	Continuing	-
Subtotal			-	19.453		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	19.453		-		-		-		-	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5			R-1 Program Element (Number/Name) PE 0303867F / <i>AMBIT - Post-Auctioned SRF</i>		
			Project (Number/Name) 658066 / <i>AMBIT - Pre-Auctioned SRF</i>		

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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>Spectrum Relocation Services</i>																												
AMBIT																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0303867F / <i>AMBIT - Post-Auctioned SRF</i>	Project (Number/Name) 658066 / <i>AMBIT - Pre-Auctioned SRF</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Spectrum Relocation Services</i>				
AMBIT	1	2025	4	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0305155F I Theater Nuclear Weapon Storage & Security System							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	1.936	19.777	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.713
655708: Nuclear Weapons Support	0.000	1.936	19.777	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.713
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2027 Program 0305155F, Nuclear Weapons Support, Transferred from Budget Activity 05 System Development & Demonstration Project 655708 to Budget Activity 7, Operational System Development Project 674612

A. Mission Description and Budget Item Justification

The Weapon Storage and Security System (WS3) is a US maintained/operated system of systems that supports the nuclear mission by providing the capability to securely and safely store resources deployed in Europe. The Vault Modernization Program (VMP) ensures National Security Directive 42 (NSD-42) compliance and addresses system obsolescence issues. Detailed information is classified and can be provided.

Funding is required for VMP to deliver an NSD-42 compliant encryption system necessary to secure forward deployed nuclear weapons in Europe in time to meet the required need date. A non-compliance will result in the need for US and NATO partner nations to post unplanned and unfunded security forces continuously until a compliant encryption system is delivered and installed. Detailed information is classified and can be provided.

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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	2.000	19.875	0.000	0.000	0.000
Current President's Budget	1.936	19.777	0.000	0.000	0.000
Total Adjustments	-0.064	-0.098	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	-0.064	-0.098			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0305155F I Theater Nuclear Weapon Storage & Security System		
<u>Change Summary Explanation</u> FY2025 reduction of \$0.098 million due to SBIR. The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner. FY 2025 budget request decreased by \$0.064 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR). FY 2026 budget request decreased by \$0.098 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Title: Vault Modernization Program (VMP) Description: Funding in FY-2025 through FY-2026 supports development, test, and evaluation of NSA-mandated crypto update and modernization of the Theater Nuclear Weapon Storage & Security System (WS3) storage vaults. FY 2026 Plans: FY-2026 funds will be used to continue to incrementally fund the initial design task order and award the second task order for 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. FY2026 initiating EMD phase and NSA Certification for WS3 VMP. FY 2027 Plans: In FY2027 Program 0305155F, Nuclear Weapons Support, Transferred from Budget Activity 05 System Development & Demonstration Project 655708 to Budget Activity 7, Operational System Development Project 674612 FY 2026 to FY 2027 Increase/Decrease Statement: In FY2027 Program 0305155F, Nuclear Weapons Support, Transferred from Budget Activity 05 System Development & Demonstration Project 655708 to Budget Activity 7, Operational System Development Project 674612. FY2026 to FY2027 increase: The WS3 VMP entering full design and development, characterizing the entire WS3 system.		1.936	19.777	0.000
Accomplishments/Planned Programs Subtotals		1.936	19.777	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026	
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>					
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• OPAF 03 0305155F: <i>Theater Nuclear Weapon Storage & Security System</i>	-	-	23.326	-	23.326	39.333	40.999	29.238	35.496	0.661	169.053
• RDTE 05 0305155F: <i>Theater Nuclear Weapon Storage & Security System</i>	-	-	24.364	-	24.364	21.504	-	-	-	0.000	45.868
Remarks											
E. Acquisition Strategy											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Vault Modernization	C/CPFF	Not specified. : TBD	-	1.768	Mar 2026	15.336	Mar 2026	0.000	Mar 2027	-		0.000	0.000	17.104	-
Subtotal			-	1.768		15.336		0.000		-		0.000	0.000	17.104	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Crypto Support	C/Various	Not specified. : TBD	-	0.168	Jan 2026	0.483	Mar 2026	0.000	Mar 2027	-		0.000	0.000	0.651	-
Subtotal			-	0.168		0.483		0.000		-		0.000	0.000	0.651	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/Various	Not specified. : TBD	-	0.000	Oct 2025	0.169	Mar 2026	0.000	Mar 2027	-		0.000	0.000	0.169	-
Subtotal			-	0.000		0.169		0.000		-		0.000	0.000	0.169	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Not specified. : TBD	-	0.000	Oct 2025	3.789	Apr 2026	0.000	Jun 2027	-		0.000	0.000	3.789	-
Subtotal			-	0.000		3.789		0.000		-		0.000	0.000	3.789	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.936		19.777		0.000		-		0.000	0.000	21.713	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force							Date: April 2026			
Appropriation/Budget Activity 3600 / 5				R-1 Program Element (Number/Name) PE 0305155F / Theater Nuclear Weapon Storage & Security System		Project (Number/Name) 655708 / Nuclear Weapons Support				
	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks In FY2027 Program 0305155F, Nuclear Weapons Support, Transferred from Budget Activity 05 System Development & Demonstration Project 655708 to Budget Activity 7, Operational System Development Project 674612										

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Mile Stone B																												
Preliminary Design Review																												
Critical Design Review																												
NSA certification																												
MS C																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0305155F / Theater Nuclear Weapon Storage & Security System	Project (Number/Name) 655708 / Nuclear Weapons Support	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Vault Modernization Program				
Mile Stone B	1	2027	1	2027
Preliminary Design Review	4	2027	4	2027
Critical Design Review	4	2028	4	2028
NSA certification	4	2029	4	2029
MS C	1	2030	1	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0305282F <i>I Joint Fires Network (JFN)</i>							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	313.982	0.000	313.982	34.436	35.138	35.842	36.568	Continuing	Continuing
650021: <i>Joint Fires Network</i>	0.000	0.000	0.000	313.982	0.000	313.982	34.436	35.138	35.842	36.568	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The Joint Fires Network Program is not a new start. Prior-years funding was maintained in PE 0305282D8Z. Starting in FY 2027, funding is distributed to service-aligned PEs, 0305282F for Department of the Air Force activities.

A. Mission Description and Budget Item Justification

In FY 2027, the Joint Fires Network (JFN) will deliver and test new software capabilities, multi-level security (MLS) capability enhancements and infrastructure deployments. JFN will deliver new command and control software capabilities and establish automated connections between JFN and service command and control systems, ISR systems and fires systems to enable collaborative planning and execution monitoring. The JFN system will integrate Generative AI models in special access facilities to enable decision superiority for fires across the joint force. Additionally, FY 2027 will see the delivery of JFN Operations Centers and nodes in both USINDOPACOM and USEUCOM.

The Joint Fires Network (JFN) is a multi-domain resilient fires-informing decision network at theater strategic and operational levels that provides a persistent targeting common operating picture and mission command applications at the SAP level to enable top echelon decision makers to optimize allocation of weapons across Services and partners at speed and scale.

The FY 2026 request for Joint Fires Network (JFN) includes \$0 thousand of discretionary funding and \$311,432 thousand of mandatory (reconciliation) funding, for a total of \$311,432 thousand.

The OSW-owned, DAF-led JFN Integrated Program Office oversees execution of all JFN funding. JFN PEs consist of: DAF (0305282F) CDAO (0305282D8Z), DISA (0305282K), USN (0605853N), USMC (0305282M), USA (0305282A).

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

Note: BA justification is automatically applied. Effort is a Software Acquisition Pathway, not a Major Defense Acquisition Pathway (Milestone B not applicable).

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 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0305282F I Joint Fires Network (JFN)				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	0.000	0.000	0.000	0.000	0.000	
Current President's Budget	0.000	0.000	313.982	0.000	313.982	
Total Adjustments	0.000	0.000	313.982	0.000	313.982	
• 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	313.982	0.000	313.982	
Change Summary Explanation For FY 2026, see PE 0308282D8Z.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Integrated Program Office				-	0.000	313.982
Description: In FY 2027, JFN will deliver and test new Command and Control (C2) software capabilities, multi-level security (MLS) capability enhancements and infrastructure deployments. JFN will establish new connections between JFN and service C2 systems to enable collaborative planning and execution monitoring. Also, JFN integrates Generative Artificial Intelligence (AI) models in special access facilities to enable decision superiority for fires across the joint force. Additionally, FY 2027 will see the delivery of JFN Operations Centers and nodes in both USINDOPACOM and USEUCOM.						
FY 2026 Plans: For FY 2026, see PE 0308282D8Z.						
FY 2027 Plans: The FY 2027 request for JFN supports testing and delivery of the JFN 3.0 suite of capabilities, and expansion from USINDOPACOM to deliver JFN capability to EUCOM.						
FY 2026 to FY 2027 Increase/Decrease Statement: FY 2026 consisted of mandatory funds only. All prior-year discretionary funds resided in 0305282D8Z and were transferred to 0305282F in FY 2027.						
Accomplishments/Planned Programs Subtotals				-	0.000	313.982

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 0305282F <i>I Joint Fires Network (JFN)</i>
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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0305282F / Joint Fires Network (JFN)				Project (Number/Name) 650021 / Joint Fires Network					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Fires Network	Various	Not specified. : TBD	-	-		-		313.982		-		313.982	Continuing	Continuing	-
Subtotal			-	-		-		313.982		-		313.982	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		313.982		-		313.982	Continuing	Continuing	N/A
Remarks															
This is a new Department of the Air Force (DAF) Program Element for an Office of the Secretary of War-owned effort transitioning to a program of record. There are currently no contracts owned or executed by the Joint Fires Network Program. Funding is being executed on existing, legacy contracts across the Department of War via Military Interdepartmental Purchase Request. After the program enters the Software Pathway Planning Phase, new contracts will be awarded and executed under the Joint Fires Network Program															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 5					PE 0305282F / Joint Fires Network (JFN)			650021 / Joint Fires Network				

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Fires Network																												
v1.0																												
v2.0																												
v3.0																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0305282F / Joint Fires Network (JFN)	Project (Number/Name) 650021 / Joint Fires Network

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Joint Fires Network				
v1.0	1	2025	4	2025
v2.0	2	2025	4	2026
v3.0	2	2026	2	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	179.436	76.296	130.175	543.788	0.000	543.788	334.249	92.265	14.378	10.000	0.000	1,380.587
650013: KC-46 Production Extension (PEX)	0.000	0.000	23.828	267.615	0.000	267.615	200.520	58.700	3.900	0.000	0.000	554.563
651120: Pegasus Capability Improvements	0.000	48.648	71.753	121.112	0.000	121.112	65.975	13.565	0.478	0.000	0.000	321.531
655271: KC-46 RDT&E	179.436	27.648	34.594	155.061	0.000	155.061	67.754	20.000	10.000	10.000	0.000	504.493
Program MDAP/MAIS Code: 387												
Note In FY 2027, PE 0401221F, KC-46A Tanker Squadrons, Project 650013 changed from Tanker Production Extension to KC-46A Production Extension (PEX).												
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 War (Acquisition and Sustainment) (USD[A&S]) 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 procured four RDT&E aircraft for integration and demonstration of capability which will ultimately be operationally fielded. The KC-46A program held a MS C DAB on 12 Aug 2016 and received approval to enter Low Rate Initial Production (LRIP). With the recent program of record increase, the program plans to procure 184 production aircraft through 13 lots (+ 4 EMD aircraft) for a total of 188 aircraft. The program has awarded LRIP lots 1-12 with lot 12 put on contract 25 Nov 2025 bringing total number of aircraft to 169 on the production contract. The first DD250 was signed on 10 Jan 2019, and the Air Force delivered the first KC-46A to McConnell Air Force Base on 25 Jan 2019. As of 3 April 2026, 105 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) 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.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
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 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. 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) on 10 Oct 2023 and 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. Project 651120, Pegasus Capability Improvement efforts include KC-46A Block 1 Pegasus Advanced Communications Suite (PACS) program will satisfy Department of War (DoW), 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. Project 650013, KC-46 Tanker Production Extension (PEx) efforts include but are not limited to planning, risk reduction, Request for Proposal (RFP) Development, and other pre-production activities (including obsolescence mitigation) to acquire additional KC-46A aircraft upon completion of current KC-46 production. Project 655271, KC-46 RDT&E efforts 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.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force			Date: April 2026			
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				
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 included all necessary 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, and 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		77.804	145.434	0.000	0.000	0.000
Current President's Budget		76.296	130.175	543.788	0.000	543.788
Total Adjustments		-1.508	-15.259	543.788	0.000	543.788
• Congressional General Reductions		0.000	0.000			
• Congressional Directed Reductions		0.000	-13.450			
• 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		-1.508	-1.809			
• Other Adjustments		0.000	0.000	543.788	0.000	543.788
Change Summary Explanation						
FY 2025 budget request decreased by \$1.508 million to support Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
FY 2026 budget request decreased by a total of \$15.259 million for a Congressional Directed Reduction of \$13.450 million and \$1.809 million Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 650013 / KC-46 Production Extension (PEX)			
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
650013: KC-46 Production Extension (PEX)	0.000	0.000	23.828	267.615	0.000	267.615	200.520	58.700	3.900	0.000	0.000	554.563
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2027, PE 0401221F, KC-46A Tanker Squadrons, Project 650013 changed from Tanker Production Extension to KC-46A Production Extension (PEX).

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 KC-46A tanker aircraft under the KC-46A Production Extension (PEX) project. The Air Force plans to use the KC-46A Capability Production Document as the most affordable requirements basis for Tanker Production Extension.

The The KC-46A PEX program funding supports development of acquisition documentation, detailed acquisition plans, Request for Proposal (RFP) contracting activities, assessment and mitigation of risks and issues, and other studies and analysis. Funding includes efforts to define and mitigate Diminishing Manufacturing Sources & Materiel Shortages (DMSMS) and obsolescence issues in preparation for aircraft procurement.

The KC-46A PEX effort ensures tanker availability for the warfighter and supports the Air Force's assessment and development of tanker requirements for the next Tanker Recapitalization program.

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 included all necessary 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, and 0605898F.

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

	FY 2025	FY 2026	FY 2027
Title: Diminishing Manufacturing Sources & Materiel Shortages (DMSMS)	-	10.730	243.494
Description: Develop technical solutions to address DMSMS and obsolescence issues which are projected to impact manufacturing of additional KC-46A aircraft under the KC-46A PEX program. This is not a new start.			
FY 2026 Plans: Research and develop detailed DMSMS obsolescence and tech refresh reports to inform KC-46A PEX courses of action.			
FY 2027 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 650013 / KC-46 Production Extension (PEX)	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026
Continuation of research and development of technical solutions to address DMSMS and obsolescence.			
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up of technical solutions development to mitigate DMSMS and obsolescence issues.			
Title: Support		-	13.098
Description: KC-46A PEX planning and preparation to include acquisition documentation development, pre-award activities, risk and issue assessment, and risk and issue mitigation. This is not a new start.			24.121
FY 2026 Plans: Continued development of acquisition documentation, develop and release RFP, contracting activities, and risk identification and mitigation plans.			
FY 2027 Plans: Develop acquisition documentation, support RFP process, continue assessing and mitigating risks and issues.			
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up of contracting activities in preparation for contract award.			
Accomplishments/Planned Programs Subtotals		-	23.828
			267.615
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The Joint Requirements Oversight Council (JROC) validated a quantity increase of the KC-46A Capability Production Document in June 2025 to support procuring up to 75 aircraft under the KC-46A PEX effort. This effort is expected to be sole source.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 650013 / KC-46 Production Extension (PEx)					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DMSMS Mitigation	SS/TBD	The Boeing Company : Seattle, WA	0.000	0.000		10.730	Jun 2026	243.494	Nov 2026	-		243.494	0.000	254.224	-
Subtotal			0.000	0.000		10.730		243.494		-		243.494	0.000	254.224	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 PEx Direct Cite Authority for Civ Pay	RO	Not Specified: TBD : TBD	0.000	0.000	Oct 2024	8.020	Oct 2025	8.667	Oct 2026	-		8.667	0.000	16.687	-
KC-46A PEx Direct Mission Support	Various	Not Specified: TBD : TBD	0.000	0.000	Oct 2024	5.078	Oct 2025	15.454	Oct 2026	-		15.454	0.000	20.532	-
Subtotal			0.000	0.000		13.098		24.121		-		24.121	0.000	37.219	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		23.828		267.615		-		267.615	0.000	291.443	N/A
Remarks In FY2027, Program 0401221F, KC-46A Tanker Squadrons, Project 650013 changed from Tanker Production Extension to KC-46A Production Extension (PEx).															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)			Project (Number/Name)				
3600 / 5					PE 0401221F / KC-46A Tanker Squadrons			650013 / KC-46 Production Extension (PEX)				

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 Production Extension																												
Industry Engagement																												
RFP Development																												
Proposal/Negotiation/Award																												
DMSMS Mitigation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 650013 / KC-46 Production Extension (PEX)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>KC-46A Production Extension</i>				
Industry Engagement	1	2026	3	2026
RFP Development	1	2026	3	2026
Proposal/Negotiation/Award	4	2026	3	2028
DMSMS Mitigation	1	2026	2	2031

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
651120: Pegasus Capability Improvements	0.000	48.648	71.753	121.112	0.000	121.112	65.975	13.565	0.478	0.000	0.000	321.531
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 KC-46A Block 1 Pegasus Advanced Communications Suite (PACS) program will satisfy Department of War (DoW), 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.

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 PACS communication upgrade requirements is 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.

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

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 651120 / Pegasus Capability Improvements		
(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.					
Funding request supports Program Support Costs (PSC) activities, test support, mission planning capability development and various studies and analyses.					
This program element included all necessary 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, and 0605898F.					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2025	FY 2026	FY 2027
Title: KC-46A Block 1 Pegasus Advanced Communications Suite (PACS)			19.970	23.941	26.423
Description: The KC-46A Block 1 Pegasus Advanced Communications Suite (PACS) program will satisfy Department of War (DoW), 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 2026 Plans: Continue Block 1 PACS EMD program and associated contracting efforts.					
FY 2027 Plans: Will continue Block 1 PACS EMD program and associated contracting efforts.					
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up of contracting activities for Block 1 PACS EMD.					
Title: Mobility Air Forces (MAF) Connectivity			4.851	0.000	27.402
Description: 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 ensure maximum MAF connectivity and real-time secure command and control for aircrew situational awareness.					
FY 2026 Plans: N/A					
FY 2027 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Begin contracting actions to award follow-on effort post MAF Connectivity Study and begin development and integration of MAF Connectivity system.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to contracting actions post MAF Study resolution.				
Title: Aircraft Product Development		6.350	31.246	45.175
Description: KC-46A product development and modification efforts include but not limited to the Take Off and Landing (TOLD), and 801X Storage Container and Diminishing Manufacturing Sources and Material Shortages (DMSMS).				
FY 2026 Plans: Continue 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 Control Logic Software 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. Incrementally fund Diminishing Manufacturing Sources and Material Shortages (DMSMS) to address deficiencies and aircraft availability.				
FY 2027 Plans: Will continue 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 Control Logic Software 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. Incrementally fund Diminishing Manufacturing Sources and Material Shortages (DMSMS) to address deficiencies and aircraft availability.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up of Diminishing Manufacturing Sources and Material Shortages (DMSMS) resolution.				
Title: Government Test		13.438	11.649	17.179
Description: KC-46A testing and planning support of development & operational test, FAA & military certification, and aircraft qualification activities.				
FY 2026 Plans: Continue KC-46A testing and planning support of development & operational test, FAA & military certification, and aircraft qualification activities.				
FY 2027 Plans:				

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026
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 2025	FY 2026	FY 2027
Will continue KC-46A testing and planning support of development & operational test, FAA & military certification, and aircraft qualification activities.			
<i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding increased due to ramp up of contracting activities, test support and increased consumables.			
<i>Title:</i> Support	4.039	4.917	4.933
<i>Description:</i> Studies and analyses to support planning activities for future initiatives for upgrades, future tanker efforts, test support and test execution.			
<i>FY 2026 Plans:</i> Continue studies, analyses and planning activities to support future upgrade initiatives.			
<i>FY 2027 Plans:</i> Will continue studies, analyses and planning activities to support future upgrade initiatives.			
<i>FY 2026 to FY 2027 Increase/Decrease Statement:</i> Funding increased due to increased program support costs for various efforts such as FAA Military Certification, DISA/JITC support, etc.			
Accomplishments/Planned Programs Subtotals	48.648	71.753	121.112

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

<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOB</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF 05 41221F/ KC046A: KC-46A Tanker	24.954	19.344	85.029	-	85.029	154.335	157.176	164.584	123.505	5,464.852	6,193.779
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,

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
3600 / 5	PE 0401221F / KC-46A Tanker Squadrons	651120 / Pegasus Capability Improvements
all ACAT-level programs, deriving from the PPCM process, will follow DoDD 5000.01 and DoDI 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 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons				Project (Number/Name) 651120 / Pegasus Capability Improvements					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	19.970	Mar 2025	23.941	Mar 2026	26.423	Nov 2026	-		26.423	0.000	70.334	-
KC-46A Take off and Landing Data (TOLD)	SS/CPFF	The Boeing Company : Seattle, WA	0.000	0.000	May 2025	2.982	Nov 2025	9.298	Nov 2026	-		9.298	0.000	12.280	-
KC-46A Mobility Air Forces Connectivity Efforts (MAF)	SS/TBD	The Boeing Company : Seattle, WA	0.000	4.851	Apr 2025	0.000	Jun 2026	27.402	Nov 2026	-		27.402	0.000	32.253	-
KC-46A Boom Control Logic	SS/CPAF	The Boeing Company : Seattle, WA	0.000	3.350	Aug 2025	6.372	Jun 2026	6.345	Nov 2026	-		6.345	0.000	16.067	-
KC-46 Diminishing Manufacturing Sources and Material Shortages (DMSMS)	TBD	TBD : TBD	0.000	0.000		19.992	Sep 2026	26.634	Nov 2026	-		26.634	0.000	46.626	-
KC-46 Development Program Efforts	Various	Various : Various	0.000	3.000	Aug 2025	1.900		2.898	Dec 2026	-		2.898	0.000	7.798	-
Subtotal			0.000	31.171		55.187		99.000		-		99.000	0.000	185.358	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	3.993	Oct 2024	4.667	Oct 2025	4.500	Oct 2026	-		4.500	0.000	13.160	-
Program Support Costs	Various	KC-46 Program Office : Dayton, W-P AFB, OH	0.000	0.046	Mar 2026	0.250	Apr 2026	0.433	Dec 2026	-		0.433	0.000	0.729	-
Subtotal			0.000	4.039		4.917		4.933		-		4.933	0.000	13.889	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force	Date: April 2026

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / KC-46A Tanker Squadrons	Project (Number/Name) 651120 / Pegasus Capability Improvements

Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	8.729	Dec 2024	8.180	Dec 2025	13.705	Nov 2026	-		13.705	0.000	30.614	-
KC-46A Long Term Test Aircraft Maintenance Support (LTTAMS)	SS/CPAF	The Boeing Company : Edwards AFB, CA	0.000	4.709	Sep 2025	0.000		0.000		-		0.000	0.000	4.709	-
KC-46 Test Aircraft Maintenance Support (KTAMS)	C/FFP	Amentum : Edwards AFB, CA	0.000	0.000		3.469	Jan 2026	3.474	Feb 2027	-		3.474	0.000	6.943	-
Subtotal			0.000	13.438		11.649		17.179		-		17.179	0.000	42.266	N/A

Remarks
LTTAMS contract ended 15 Mar 2026

	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	48.648	71.753	121.112	-	121.112	0.000	241.513	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force										Date: April 2026									
Appropriation/Budget Activity										R-1 Program Element (Number/Name)									
3600 / 5										PE 0401221F / KC-46A Tanker Squadrons									
										Project (Number/Name)									
										651120 / Pegasus Capability Improvements									

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
LTTAMS																												
MAF Connectivity																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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	2025	2	2030
LTTAMS	4	2025	2	2026
MAF Connectivity	4	2025	3	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
655271: KC-46 RDT&E	179.436	27.648	34.594	155.061	0.000	155.061	67.754	20.000	10.000	10.000	0.000	504.493
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 War (Acquisition and Sustainment) (USD[A&S]) 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 procured 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 184 production aircraft throughout 13 lots (+4 EMD aircraft) for a total of 188 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 1-12 with lot 12 put on contract 25 Nov 2025 bringing total number of aircraft to 169 on the production contract. As of 24 Feb 2026, 103 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) 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 June 2025, and is a critical force extender in the 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 16 Mar 2026, 104 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 Distributed Mission Operations (DMO), provide aircrew instruction, develop courseware, provide logistics support, acquire a technical data package to support future

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026			
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		
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 RDT&E Program efforts include 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.						
Funding request supports 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 included all necessary 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, and 0605898F.						
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: KC-46A Aircraft Product Development				7.468	19.373	120.557
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 2026 Plans: Continue 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 2027 Plans:						

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Will continue 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), to address deficiencies and improve capability.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up in support activities such as BTAR redesign, receiver activities and correcting deficiencies.				
Title: KC-46A Trainer Product Development - Aircrew Training System (ATS) Description: Continuation of Trainer development activities to include but not limited to the development of ATDs, courseware, and associated support equipment, eRVS, BTAR, NVG, LAIRCM, RVS 2.0, and TOLD Upgrade Development.		0.221	0.687	0.641
FY 2026 Plans: Continue ATS Night Vision Goggles and ATS Boom Upgrade.				
FY 2027 Plans: Will continue ATS Night Vision Goggles and ATS Boom Upgrade.				
FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to reduction of development efforts.				
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.		16.956	14.394	33.863
FY 2026 Plans: Continue Test and Evaluation activities to include but not limited to Development Test & Evaluation (DT&E), Operational Test & Evaluation (OT&E), Tanker Qualification, Receiver Certifications, Live Fire Test & Evaluation (LFT&E).				
FY 2027 Plans: Will continue 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 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up of DT&E and OT&E activities.				
Title: KC-46A Support		3.003	0.140	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force			Date: April 2026
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 2025	FY 2026	FY 2027
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 2026 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 2027 Plans: N/A FY 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to anticipated completion of program of record development support efforts.			
Accomplishments/Planned Programs Subtotals	27.648	34.594	155.061

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• APAF 02 Line Item KC046A: KC-46A Tanker	2,779.618	2,749.974	3,520.530	-	3,520.530	6,011.690	6,116.345	6,174.432	6,296.780	4,847.130	38,496.499
• APAF 06 Line Item 000999: Initial Spares	206.754	343.430	266.748	-	266.748	372.880	342.870	323.230	289.750	0.000	2,145.662

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 War (Acquisition and Sustainment) (USD[A&S]) 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.

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / <i>KC-46A Tanker Squadrons</i>	Project (Number/Name) 655271 / <i>KC-46 RDT&E</i>
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 OSW(A&S) 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 184 Production aircraft through 13 lots (+4 EMD aircraft) for a grand total of 188 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 Flight Safety 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 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 2027 Air Force **Date:** April 2026

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401221F / <i>KC-46A Tanker Squadrons</i>	Project (Number/Name) 655271 / <i>KC-46 RDT&E</i>

Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Capability	SS/CPFF	The Boeing Company : Seattle, WA	6.388	0.000	Jan 2025	-		-		-		-	0.000	6.388	-
KC-46A aircraft non-recurring development, integration, and testing; 4 RDT&E tanker aircraft; and support	SS/FPIF	The Boeing Company : Seattle, WA	153.318	7.468	Jul 2025	19.373	Oct 2025	120.557	Oct 2026	-		120.557	0.000	300.716	-
KC-46A Maintenance Training Systems	SS/FPIF	Not specified. : TBD	0.000	0.090	Mar 2025	0.173	Mar 2026	0.115	Mar 2027	-		0.115	0.000	0.378	-
KC-46A Aircrew Training System	SS/FPIF	Flight Safety Services Co : Centennial, CO	0.947	0.131	Apr 2025	0.514	Dec 2025	0.526	Dec 2026	-		0.526	0.000	2.118	-
Subtotal			160.653	7.689		20.060		121.198		-		121.198	0.000	309.600	N/A

Remarks

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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	4.929	0.664	Apr 2025	-		-		-		-	0.000	5.593	-
KC-46 DMS efforts associated with FAA Mil Certification and RMF Continuous Monitoring Capabilities	MIPR	Various : Various	1.660	2.339	Feb 2025	0.140	May 2026	-		-		-	0.000	4.139	-
Subtotal			6.589	3.003		0.140		-		-		-	0.000	9.732	N/A

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PE 0401221F: KC-46A Tanker Squadrons
Air Force

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force																Date: April 2026			
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Government Testing for Correction of CAT 1 Deficiencies																												
Boom Telescope Actuator Redesign ECP																												
Aircrew Training System Development & Updates																												
KC-46 Test & Evaluation																												
Take Off and Landing Data (TOLD)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
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				
Government Testing for Correction of CAT 1 Deficiencies	1	2025	4	2027
Boom Telescope Actuator Redesign ECP	1	2025	4	2027
Aircrew Training System Development & Updates	1	2025	4	2026
KC-46 Test & Evaluation	2	2027	2	2031
Take Off and Landing Data (TOLD)	1	2025	2	2027

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	3,800.245	419.617	594.557	555.195	0.000	555.195	179.441	33.476	34.104	34.794	0.000	5,651.429
655250: VC-25B	3,800.245	419.617	594.557	555.195	0.000	555.195	179.441	33.476	34.104	34.794	0.000	5,651.429
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 425												
Note FY 2025 was rescinded \$142.7 million and is not reflected in this budget documentation.												
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 VC-25B 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. 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, and 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 2027 Air Force				Date: April 2026		
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 / VC-25B				
B. Program Change Summary (\$ in Millions)	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	
Previous President's Budget	433.943	602.318	0.000	0.000	0.000	
Current President's Budget	419.617	594.557	555.195	0.000	555.195	
Total Adjustments	-14.326	-7.761	555.195	0.000	555.195	
• 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	-14.326	-7.761				
• Other Adjustments	0.000	0.000	555.195	0.000	555.195	
Change Summary Explanation						
FY 2025 budget request decreased by \$14.326 million for Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
FY 2026 budget request decreased by \$7.761 million for Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).						
The FY 2026 President's Budget submittal did not reflect FY 2027 through FY 2030 funding. Therefore, an explanation of the change between the two budget positions for FY 2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: VC-25B Engineering and Manufacturing Development (EMD), Product Support, & Program Support Costs (PSC)				418.517	586.980	531.862
Description: EMD includes activities such as management, integration, modification, contractor test, certification, and product support to deliver Presidential mission-ready two VC-25B Aircraft utilizing modeling and simulation, system integration labs (SILs), and mockups to assist in design/modification.						
FY 2026 Plans: 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 2027 Plans:						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 / VC-25B							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2025	FY 2026	FY 2027
Continuation of EMD activities, aircraft modification, and DT&E transition planning and implementation 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 2026 to FY 2027 Increase/Decrease Statement: Funding decreased due to ramp down of EMD activities, product support and PSC as the program transitions to DT&E.												
Title: VC-25B Government Test										1.100	7.577	23.333
Description: Government test activities to prepare for, oversee, and conduct test events.												
FY 2026 Plans: Government test activities to include but not limited to oversee and conduct test events for DT&E efforts.												
FY 2027 Plans: Continuation of testing activities and DT&E efforts.												
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to ramp up of Government Test for DT&E activities, to include ground and flight test.												
Accomplishments/Planned Programs Subtotals										419.617	594.557	555.195
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• APAF 05 OSAEA0: VC-25B	0.000	36.681	122.665	-	122.665	127.055	51.806	0.000	0.000	0.000	338.207	
• APAF 06 000999: Initial Spares/Repair Parts	0.000	0.000	34.200	-	34.200	139.700	0.000	0.000	0.000	0.000	173.900	
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												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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 / VC-25B	
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.		
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 an additional 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. In January 2025, the program initiated planning to accelerate delivery of both aircraft. Boeing and the Air Force agreed upon several initiatives to accelerate delivery. These initiatives included requirements trades to complete design activities, a change in security posture, streamlining test planning and execution, and a transition from Federal Aviation Administration to Military certification for airworthiness. Boeing completed the design on 30 Oct 25 and released all engineering drawings by 31 Jan 26.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	3,502.345	260.633	Sep 2025	252.405	Nov 2025	165.273	Nov 2026	-		165.273	0.000	4,180.656	-
VC-25B Product Support Contract Activities	SS/FFP	The Boeing Company : Various	160.228	136.252	Feb 2026	314.403	Oct 2025	337.964	Oct 2026	-		337.964	0.000	948.847	-
Subtotal			3,662.573	396.885		566.808		503.237		-		503.237	0.000	5,129.503	N/A
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Direct Cite Authority Civilian Pay	Various	AFLCMC/WV : WPAFB, OH	23.444	7.680	Oct 2024	7.236	Oct 2025	6.998	Oct 2026	-		6.998	0.000	45.358	-
Subtotal			23.444	7.680		7.236		6.998		-		6.998	0.000	45.358	N/A
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	20.135	1.100	Jul 2025	7.577	Dec 2025	23.333	Dec 2026	-		23.333	0.000	52.145	-
Subtotal			20.135	1.100		7.577		23.333		-		23.333	0.000	52.145	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	13.938	0.671	Oct 2024	1.243	Oct 2025	6.678	Oct 2026	-		6.678	0.000	22.530	-
VC-25B Program Support Costs- Contract Services	C/T&M	AFLCMC/WV : WPAFB, OH	80.155	13.281	Sep 2025	11.693	Nov 2025	14.949	Oct 2026	-		14.949	0.000	120.078	-
Subtotal			94.093	13.952		12.936		21.627		-		21.627	0.000	142.608	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026			
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0401319F / VC-25B					Project (Number/Name) 655250 / VC-25B				
		Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		3,800.245	419.617		594.557		555.195		-		555.195	0.000	5,369.614	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 2027 Air Force																Date: April 2026			
Appropriation/Budget Activity								R-1 Program Element (Number/Name)								Project (Number/Name)			
3600 / 5								PE 0401319F / VC-25B								655250 / VC-25B			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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)																												
Familiarization and Operational Test (FAM/OT)																												
Required Assets Available (RAA) for Initial Operational Capability (IOC)																												
RAA for Full Operational Capability																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026	
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	2025	2	2029
Product Support Activities	1	2025	1	2031
Developmental Test (DT)	3	2027	3	2028
Familiarization and Operational Test (FAM/OT)	2	2028	3	2028
Required Assets Available (RAA) for Initial Operational Capability (IOC)	4	2028	4	2028
RAA for Full Operational Capability	4	2029	4	2029

Note
Engineering and Manufacturing Development (EMD), Aircraft Modification, and Product Support Activities all began prior to Q1 2025. These dates are based upon Boeing's Integrated Master Schedule (IMS) delivered to the USAF in October 2025.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0401334F I Large Aircraft Survivability Systems (LASS)							
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	17.996	0.000	17.996	118.913	145.000	0.000	0.000	Continuing	Continuing
650023: Effector Development	0.000	0.000	0.000	17.996	0.000	17.996	118.913	145.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note This program, BA 5, PE 0401334F, project 650023, Processor Development, is a new start. This program, BA 5, PE 0401334F, project 650023, Effector Development, is a new start. Due to an inadvertent database error, the FY 2027 funding in R-1 Line #281 of \$50.111 million, was intended for this line (R-1 Line R-119). This funding is intended to continue active defense sensor development. A. Mission Description and Budget Item Justification Large Aircraft Survivability Systems (LASS) expands the protection of large aircraft beyond surface-to-air infrared (IR) missile threats to ensure the survivability of the High Value Airborne Assets (HVAA), air-refueling aircraft, and tactical/strategic airlifters against the increasing lethality of long-range enemy threats. LASS will develop and integrate a set of modular, platform-agnostic, scalable, on-board systems of sensors, processors, and effectors to support both on-board and off-board engagement systems. These sensors will look downward and upward to identify threats and provide aircrews a common operating picture and provide non-kinetic and kinetic engagement solutions to defeat threats to US and allied aircraft. Funding will support development and prototyping within a modular, scalable architecture, ensuring the capability can be rapidly upgraded to detect new and emerging threats. Large aircraft must have the ability to detect, decide, and defeat the enemy threats organically from onboard the aircraft. Multiple sensors will detect threats, processors will decide what threat is inbound and which aircraft is being targeted, and determine which effector is the best option to defeat the threat and provide continuous targeting data to the effector, if necessary. Effector systems may use kinetic and non-kinetic means to defeat the threat. LASS efforts include, but are not limited to, developing operational hardware and software to improve detection field of view, processing, algorithms, and dynamic tracking to ensure common interfaces for components and early countermeasure engagement. Project 650023, Effector Development, develops the LASS processor and effector. The processor and effector, along with the Long-Range Detect Sensor (LRDS) and Active Defense Sensor (ADS) developed in BA 7, PE 0401334F, LASS, Project 67A038, Advanced Sensors, provide the capability for large aircraft to organically detect, decide, and defeat the long-range threats. These will allow the large aircraft to decide how to engage and defeat the threat with a new on-board effector. The effector will allow a large aircraft to organically defeat any long-range threat utilizing on-board capabilities without external assistance. The effector will likely be a new development effort to create an item not currently in use on other Air Force systems. The requirements for the LRDS, ADS, Processor, and Effector are documented in the Platform Agnostic Kinetic Self-Defense (PAKS-D) System Attributes Requirements Document (SARD), validated 18 March 2026.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0401334F I Large Aircraft Survivability Systems (LASS)				
Program support cost efforts consist of, but are not limited to, contract services and government costs. This program element included all necessary 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, and 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.						
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		0.000	0.000	0.000	0.000	0.000
Current President's Budget		0.000	0.000	17.996	0.000	17.996
Total Adjustments		0.000	0.000	17.996	0.000	17.996
• 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	17.996	0.000	17.996
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: Processor Development				0.000	0.000	5.000
Description: Development effort involving operational hardware and software required for organic, on-board processing and transmission of data between sensors and an effector against long-range threats to large aircraft survivability.						
FY 2026 Plans: N/A						
FY 2027 Plans: Execute studies as required and begin rapid prototype development efforts.						
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increase due to ramp up of program office and development activities.						
Title: Effector Development				0.000	0.000	12.996

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 0401334F / <i>Large Aircraft Survivability Systems (LASS)</i>							
C. Accomplishments/Planned Programs (\$ in Millions)										FY 2025	FY 2026	FY 2027
Description: Development effort involving maturation, qualification, and test of emerging technology hardware and software required for large aircraft to organically defeat long range threats utilizing on-board capabilities. The kinetic effector must be developed concurrently with the processor to act as a system to meet the PAKS-D SARD requirements. FY 2026 Plans: N/A FY 2027 Plans: Execute studies as required and begin rapid prototype development efforts. FY 2026 to FY 2027 Increase/Decrease Statement: Funding increase due to ramp up of program office and development activities.												
Accomplishments/Planned Programs Subtotals										0.000	0.000	17.996
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost	
• RDTE 07 0401334F: <i>Large Aircraft Survivability Systems (LASS)</i>	0.000	0.000	50.111	-	50.111	70.096	49.785	27.856	28.420	Continuing	Continuing	
Remarks												
E. Acquisition Strategy												
The Air Force seeks to compete these efforts using a rapid and flexible strategy. The Air Force will begin with sOther Transaction Agreements (OTAs) and later transition to a Program of Record. This model is needed to accelerate innovation, reduce technical risk, and provide key insights to inform future acquisition decisions for an advanced modular scalable architecture sensor system. Competition is vital to this strategy as it drives down costs, spurs innovation, and improves product quality.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0401334F / Large Aircraft Survivability Systems (LASS)				Project (Number/Name) 650023 / Effector Development					
Product Development (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Processor Development	C/FFP	AFLCMC/ESY : Wright-Patterson AFB, OH	-	-		-		5.000	Jun 2027	-		5.000	Continuing	Continuing	-
Effector Development	C/FFP	AFLCMC/ESY : Wright-Patterson AFB, OH	-	-		-		12.996	Jun 2027	-		12.996	Continuing	Continuing	-
Subtotal			-	-		-		17.996		-		17.996	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		17.996		-		17.996	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force												Date: April 2026			
Appropriation/Budget Activity						R-1 Program Element (Number/Name)						Project (Number/Name)			
3600 / 5						PE 0401334F / Large Aircraft Survivability Systems (LASS)						650023 / Effector Development			

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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
Processor Development																												
Studies & Concept Refinement																												
Effector Development																												
Studies & Concept Refinement																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force		Date: April 2026
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0401334F / Large Aircraft Survivability Systems (LASS)	Project (Number/Name) 650023 / Effector Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Processor Development				
Studies & Concept Refinement	2	2027	4	2029
Effector Development				
Studies & Concept Refinement	2	2027	4	2029

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	20.962	29.925	15.900	0.000	15.900	10.905	12.100	12.333	12.581	Continuing	Continuing
6506TE: Test And Evaluation Support Budget Authority	0.000	20.962	29.925	15.900	0.000	15.900	10.905	12.100	12.333	12.581	Continuing	Continuing
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 2027 Air Force		Date: April 2026
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.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force				Date: April 2026		
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				
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 1.842M was expended for civilian pay expenses in this program element, in FY 2026 2.169M is forecasted to pay expenses in this 0701212F for Direct Cite Authority positions.						
In direct support of SecDefs direction to increase readiness across the DoD, efforts within this PEC will be prioritized based on the National Defense Authorization Act (NDAA), USAF Force Design, Agile Combat Employment (ACE), and the Defense Planning Guide (DPG) These efforts will support work and collaboration efforts across the Combat Readiness Directorate in PE's 0708051F, 0701212F, 0702833F, 0604706F, 0605827F, 0202834F, 0502834F, 0208031F, 0401135F and 0207521F) -- to increase readiness across the Air Force Enterprise.						
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		21.634	30.341	0.000	0.000	0.000
Current President's Budget		20.962	29.925	15.900	0.000	15.900
Total Adjustments		-0.672	-0.416	15.900	0.000	15.900
• 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		-0.672	-0.416			
• Other Adjustments		0.000	0.000	15.900	0.000	15.900
Change Summary Explanation						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner. Appropriated baseline and reflection of Congressional Marks in FY25 SIBR/SITR tax assessment in FY25 and 26 as well.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: ATS Modernization and Digital Transformation				4.699	11.942	1.200
Description: In an effort to develop and modernize ATS that maximize warfighter core capabilities across spectrum of DoW 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.						

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
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 vital. The Challenge: A next-gen avionics system needs a test program, a process that traditionally takes years of manual effort. The Old Way: Engineers would write thousands of pages of technical specifications, leading to translation errors and massive delays. The Digital Shift: The system is now designed entirely within a Model-Based Systems Engineering (MBSE) environment. The Digital Twin: This digital model becomes the "single source of truth" for all design, manufacturing, and sustainment data. Automated Generation: The test program and all requirements are now automatically generated directly from the digital model. The Result: The test solution is developed in parallel with the hardware, cutting the delivery schedule from years down to months. Continuous Evolution: When the system's software is updated, the digital model instantly regenerates a new, fully compliant test program. The Strategic Win: This digital ecosystem accelerates capability delivery to the warfighter and ensures testers evolve at the speed of software. 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. This IPT has been tasked with risk reduction of ATS by improving modernization and digital material management to enhance and secure the future of ATS. Projects have been established to secure the future and security of automatic test systems. The Foundational Enabler for the Future Fight: This program is the only path to fielding the test solutions required for the Air Force's next-generation platforms (NGAD, B-21, Sentinel) and the core strategic goal of achieving 'operational flexibility and agility.' It is not an upgrade; it is a prerequisite for the future force. The Game-Changing Solution: It delivers this capability by executing the AF Digital Strategy—using Model-Based Systems Engineering (MBSE), Digital Twins, and MOSA to slash development timelines from years to months. This ensures our test solutions evolve at the speed of software, keeping pace with agile adversaries. FY 2027 Plans: Identify, research, and facilitate innovative solutions for current and future ATS products, challenges, and needs. Implement digital technology to modernize and improve ATS operations, products and services that transform system management into digital formats.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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>Automated Test Systems</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2025	FY 2026	FY 2027
Efforts include ruggedized cables for B-52 Multi-User Systems Tester Armament Next Generation (MUSTANG), CACI - Modeling, on ramp fees associated with the award of ATS's 10-year \$980M Multiple Award Indefinite Delivery-Indefinite Quantity (IDIQ), ATSA I, which is a mandatory source contracts providing a rapid award approach for the procurement, development, and sustainment of the goods and services, supporting life-cycle of legacy items and future requirements for the program office. Innovation - Modernizing of historical standards and processes by introducing new methods, ideas, services, technologies, or products. Digital Transformation - Integration of digital technology into all areas of the business, fundamentally changing how ATS operates and delivers value to customers. FY 2026 to FY 2027 Increase/Decrease Statement: Decrease from FY26 to FY27 is due to system modeling efforts awarding for less due to government cost savings, on ramp fees are only due in the base year, ruggedized cable efforts for MUSTANG will be complete.				
Title: Automatic Test Systems Innovation/Digital Transformation / Common Armament Tester - Fighter Description: RDT&E efforts support development and testing of the Common Armament Tester -Fighter and Test Program Sets. The CAT-F consolidates multiple legacy testers into a single, flexible platform, dramatically reducing the logistics footprint and lifecycle costs. The Foundational Enabler for the Future Fight: This program is the only path to fielding the test solutions required for the Air Force's next-generation platforms (NGAD, B-21, Sentinel) and the core strategic goal of achieving 'operational flexibility and agility.' It is not an upgrade; it is a prerequisite for the future force. FY 2026 Plans: 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 Demonstration: Physical Asset / Testing Parameters Verification: Assess projected critical capabilities of the CAT-F system Digital Package: Data Sufficiency Cost: EMD Completion		1.715	2.299	2.500

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026		
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 2025	FY 2026	FY 2027
Stage III: EMD-Option Award (selecting at least one for production) CAT-F System Design Program is currently in source selection and has experienced delays due to a protest. FY 2027 Plans: Funds are required to pay for civilian direct cite authority (DCA) positions and costs associated with the Common Armament Tester - Fighters. 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 1.979M was expended for civilian pay expenses in this program element, in FY 2026 1.978M and FY2027 2.225M is forecasted to pay expenses in this 0701212F for Direct Cite Authority positions. In direct support of SecWar's direction to increase readiness across the DoW, efforts within this PEC will be prioritized based on the National Defense Authorization Act NDAA), USAF Force Design, Agile Combat Employment (ACE), and the Defense Planning Guide (DPG) These efforts will support work and collaboration efforts across the Combat Readiness Directorate in PE's 0708051F, 0701212F, 0702833F, 0604706F, 0605827F, 0202834F, 0502834F, 0502844F, 0208031F, 0401135F and 0207521F) -- to increase readiness across the Air Force Enterprise. FY 2026 to FY 2027 Increase/Decrease Statement: Increase from FY26 to FY27 is due to delays caused by protest during initial request for proposal (RFP). As a result, contract award/vendor selection are delayed.				
Title: Common Aircraft Portable Reprogramming Equipment (CAPRE) Secure Memory Loader Verifier (SMLV) 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 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. Block 3 Porting (HH-60, MH-139)		14.548	15.684	12.200

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force							Date: April 2026				
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 2025	FY 2026	FY 2027		
Block 4 Porting (B-1,B-2, KC-46) Contract for F-16 AAGs (Year 1) FY 2027 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. Block 2 Porting Continued (F-15) Block 5 Porting (CV-22) Award of contract for complex F-16 AAGs via the Automatic Test Systems Acquisition (ATSA) Indefinite Delivery Indefinite Quantity (IDIQ) Multi-Award Contract (MAC) June 2026. To accelerate our modernization efforts, we've launched the ATSA-I contract. This is a 10-year, 980 million IDIQ vehicle designed to be rapid and flexible. Its key benefits are reducing award timelines by at least three months, increasing competition, and lowering the administrative burden. This is our primary tool for getting modern test capabilities into the hands of the warfighter, faster. FY 2026 to FY 2027 Increase/Decrease Statement: FY26 to FY27 decrease is due to the completion of the porting of the most complex air adapter groups (AAGs) for the F-16 platform via ATS's 10-year \$980M Multiple Award Indefinite Delivery-Indefinite Quantity (IDIQ) contracting vehicle.											
Accomplishments/Planned Programs Subtotals							20.962	29.925	15.900		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• APAF 07 00071: Replacement Support Equipment	23.948	0.000	-	-	-	-	-	-	-	0.000	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.											
FY26-27 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 2027 Air Force										Date: April 2026	
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>Automated Test Systems</i>						
D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u> <u>Base</u>	<u>FY 2027</u> <u>OOB</u>	<u>FY 2027</u> <u>Total</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>FY 2031</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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 from 26 to 27 due to the costs associated with the release of the RFP for the CAT-F program, 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 on the CAPRE SMLV program. The CV-22 platform, which has 36 AAGs that require advanced coding of the software. Cost also increased with the new controller and the Networked Interface Module (NIM) labor and material costs increasing from 8K to 45K per unit. 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 1.979M was expended for civilian pay expenses in this program element, in FY 2026 1.978M and FY2027 2.225M is forecasted to pay expenses in this 0701212F for Direct Cite Authority positions. In direct support of SecWar's direction to increase readiness across the DoW, efforts within this PEC will be prioritized based on the National Defense Authorization Act NDAA), USAF Force Design, Agile Combat Employment (ACE), and the Defense Planning Guide (DPG) These efforts will support work and collaboration efforts across the Combat Readiness Directorate in PE's 0708051F, 0701212F, 0702833F, 0604706F, 0605827F, 0202834F, 0502834F, 0502844F, 0208031F, 0401135F and 0207521F) -- to increase readiness across the Air Force Enterprise.											
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											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force		Date: April 2026
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	
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) 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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	516th OO-ALC : Salt Lake City, UT	-	14.548	Mar 2025	11.300	Mar 2026	12.200	Dec 2026	-		12.200	Continuing	Continuing	-
CAPRE SMLV F-16 AAG CONTRACT	C/TBD	Not specified. : TBD	-	-		3.500	Jun 2026	-		-		-	Continuing	Continuing	-
CAT-F	C/CPAF	Not specified. : TBD	-	-		0.321	Jun 2026	0.577	Feb 2027	-		0.577	Continuing	Continuing	-
ATS Innovation / Digital Transformation	C/CPAF	Not specified. : TBD	-	0.571	Jul 2025	1.336	Apr 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	15.119		16.457		12.777		-		12.777	Continuing	Continuing	N/A
Remarks															
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), Common Aircraft Portable Reprogramming Equipment Secure Memory Loader Verifier (CAPRE SMLV),B-52 Multi-User Systems Tester Armament Next Generation (MUSTANG), 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.															
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 FY26 to 27 is due to the costs associated with awarding F-16, F-16, and A-10 O-Level Testers EMD Increment I for the CAT-F. Funds will also be utilized to fund DCA civilian personnel costs.															
CAPRE SMLV: The funding increase for FY26 to FY27 due to the porting of AAGs for CV-22's 36 AAGs which require more advanced software coding and awarding a new contract for the F-16 complex Air Adapter Groups versus utilizing the 516th Software Maintenance Group (SWEG). 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 also increased. The cost has increased from 10K to 45K 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.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026		
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
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.) 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 2025 1.979M was expended for civilian pay expenses in this program element, in FY 2026 1.978M and FY2027 \$2.225M is forecasted to pay expenses in this 0701212F for Direct Cite Authority positions. In direct support of SecWar's direction to increase readiness across the DoW, efforts within this PEC will be prioritized based on the National Defense Authorization Act NDAA), USAF Force Design, Agile Combat Employment (ACE), and the Defense Planning Guide (DPG). These efforts will support work and collaboration efforts across the Combat Readiness Directorate in PE's 0708051F, 0701212F, 0702833F, 0604706F, 0605827F, 0202834F, 0502834F, 0502844F, 0208031F, 0401135F and 0207521F) -- to increase readiness across the Air Force Enterprise.															
Support (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Dec 2024	1.200	Dec 2025	1.200	Dec 2026	-		1.200	Continuing	Continuing	-
Subtotal			-	1.200		1.200		1.200		-		1.200	Continuing	Continuing	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.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force												Date: April 2026			
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					
Test and Evaluation (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 and Operation Testing support	PO	Various : TBD	-	-		0.884	May 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	-		0.884		-		-		-	Continuing	Continuing	N/A
Remarks															
Final Qualification Test (FQT) of four AC and MC-130J Aircraft Adapter Groups (AAG) for the Common Aircraft Portable Reprogrammable Equipment (CAPRE) Secure Memory Loader Verifier (SMLV) will take place at Nellis and Hurlburt Field Air Force Base.															
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	1.715	Oct 2024	1.978	Oct 2025	1.923	Oct 2026	-		1.923	Continuing	Continuing	-
Digital Transformation and Modernization	TBD	Not specified. : TBD	-	1.212	Jul 2025	6.075	May 2026	-		-		-	Continuing	Continuing	-
Program Administrative Costs	C/CPAF	Not specified. : TBD	-	1.716	Mar 2025	3.331	Mar 2026	-		-		-	Continuing	Continuing	-
Subtotal			-	4.643		11.384		1.923		-		1.923	Continuing	Continuing	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.															
Digital Transformation Initiatives include game-changing solutions. Multiple efforts are required to deliver test solutions required for the Air Force's next generation platforms. In order to deliver this capability by executing the AF Digital Strategy—the Automatic Test Systems program office will use Model-Based Systems Engineering (MBSE), Digital Twins, and MOSA to slash development timelines from years to months. This ensures our test solutions evolve at the speed of software, keeping pace with agile adversaries.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2027 Air Force											Date: April 2026						
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							
					Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals					-	20.962		29.925		15.900		-		15.900	Continuing	Continuing	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.

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 1.979M was expended for civilian pay expenses in this program element, in FY 2026 1.978M and FY2027 \$2.225M is forecasted to pay expenses in this 0701212F for Direct Cite Authority positions.

In direct support of SecWar's direction to increase readiness across the DoW, efforts within this PEC will be prioritized based on the National Defense Authorization Act NDAA), USAF Force Design, Agile Combat Employment (ACE), and the Defense Planning Guide (DPG)

These efforts will support work and collaboration efforts across the Combat Readiness Directorate in PE's 0708051F, 0701212F, 0702833F, 0604706F, 0605827F, 0202834F, 0502834F, 0502844F, 0208031F, 0401135F and 0207521F) -- to increase readiness across the Air Force Enterprise.

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
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 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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																												
Direct Cite Civilian Authorizations																												
CAPRE SMLV																												
BLOCK 1 PORT: C-5, C-17, C-130, B-52																												
BLOCK 2 PORT: B-1, B-2																												
BLOCK 3: (HH-60, MH-139																												
BLOCK 4: PORT B-1,B-2, KC-46																												
BLOCK 5: PORT CV-22																												
Digital Transformation																												
Versatile Diagnostic Automatic Testing System Bench Top																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2027 Air Force			Date: April 2026
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	2	2026	4	2026
Direct Cite Civilian Authorizations	1	2026	4	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	1	2026
BLOCK 3: (HH-60, MH-139	2	2025	3	2026
BLOCK 4: PORT B-1,B-2, KC-46	1	2025	1	2026
BLOCK 5: PORT CV-22	1	2027	4	2027
Digital Transformation				
Versatile Diagnostic Automatic Testing System Bench Top	3	2026	1	2027

Note

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).

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 FY26 to FY27 due to the porting of AAGs for CV-22's 36 AAGs which require more advanced software coding. 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 also increased. 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 2027 Air Force		Date: April 2026
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 DoW 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.) Program is growing as ROA 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. 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. 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 2027 Air Force		Date: April 2026
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 DoW weapon systems; accelerates technology development and trans...		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force	Date: April 2026

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 0804772F / <i>Training Developments</i>											
COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	4.778	8.198	4.947	0.000	4.947	5.050	5.144	5.241	5.347	Continuing	Continuing
652400: <i>Training Developments</i>	0.000	4.778	8.198	4.947	0.000	4.947	5.050	5.144	5.241	5.347	Continuing	Continuing

A. Mission Description and Budget Item Justification

Training Developments program is part of 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. 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. PTN explores technological and instructional innovations designed to improve upon Specialized Undergraduate Pilot Training (SUPT) at Located at Randolph Air Force Base, TX, Detachment 24. PTN program train small groups of students using experimental syllabi, and in 2018, the first class of 13 students graduated from a 24-week course. PTN graduates receive a basic aeronautical rating and go to follow-on training in airframes like the F-35/F-16 fighter aircraft and C-17 cargo aircraft. In 2022, innovations tested at Detachment 24 were adopted and AETC launched a new pilot training syllabus at the all major pilot training bases.

Training Developments program harvests cutting edge technology to provide a faster, more cost effective and comprehensive training model to get the warfighter in the cockpit in half the time. Training Developments program 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 Air Force's pilot shortage.

This program element included all necessary 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, and 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 2027 Air Force				Date: April 2026	
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget	4.960	5.067	0.000	0.000	0.000
Current President's Budget	4.778	8.198	4.947	0.000	4.947
Total Adjustments	-0.182	3.131	4.947	0.000	4.947
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	3.200			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.182	-0.069			
• Other Adjustments	0.000	0.000	4.947	0.000	4.947
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 652400: Training Developments					
Congressional Add: Competency-based Adaptive Learning					
Congressional Add Subtotals for Project: 652400					
Congressional Add Totals for all Projects					
Change Summary Explanation					
FY 2025 budget request decreased by \$0.182 million due to Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).					
FY 2026 budget request decreased by total of \$3.131 million due to a Congressional Add of \$3.200 million for competency-based adaptive learning management system and decrease of \$0.069 million for Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR).					
The FY 2026 President's Budget submittal did not reflect the FY 2027 through FY 2030 funding. Therefore, an explanation of the changes between the two budget positions for FY 2027 cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force										Date: April 2026		
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 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
652400: <i>Training Developments</i>	0.000	4.778	8.198	4.947	0.000	4.947	5.050	5.144	5.241	5.347	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Training Developments program provides 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 program developmental efforts focus on the Specialized Undergraduate Pilot Training (SUPT) which trains pilots on the T-6, T-1, and T-38 aircraft. Funding also provides for the Air Mobility Fundamentals - Simulator Only program which fast tracks pilot training, reducing it from 7 months to 3 months. Reduced training time positively impacts AETC's flying training enterprise efforts to address the Air Force's pilot shortage by improving both quality and quantity of pilots. 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 included all necessary 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, and 0605898F.

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

	FY 2025	FY 2026	FY 2027
Title: Pilot Training Next (PTN) Development	4.778	5.067	4.947
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 effort 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) curriculum for T-6, T-1, and T-38 platforms. 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 to include but not limited to validating new aviation training technology concepts, develop processes and procure prototype equipment to increase pilot production, improve and streamline existing undergraduate pilot training programs. Additionally, PTN training curriculum will also identify training concepts for introduction of the T-7A Red Hawk.			
FY 2026 Plans: 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			

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Exhibit R-2A, RDT&E Project Justification: PB 2027 Air Force		Date: April 2026	
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 2025	FY 2026
include but not limited to new aviation training technology concepts, develop processes to increase pilot production, and identify training concepts for introduction of the T-7A Red Hawk.			
FY 2027 Plans: Continuation of research and analyze flying training use cases for Interactive Training Devices (ITDs) to replace oversized, expensive flight simulators. Plans also include but not limited research and analyze advancements in immersive technology, spatial computing to delivery remote instruction, and methods to integrate 5th generation aircraft competencies into the synthetic environment, new aviation training technology concepts, and develop processes to increase pilot production.			
FY 2026 to FY 2027 Increase/Decrease Statement: Funding increased due to economic adjustments for contracting activities.			
Accomplishments/Planned Programs Subtotals		4.778	5.067
		FY 2025	FY 2026
Congressional Add: Competency-based Adaptive Learning		-	3.131
FY 2026 Plans: Congressional Add to develop Competency-based Adaptive Learning Management System			
Congressional Adds Subtotals		-	3.131
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 2027 Air Force												Date: April 2026			
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	3.696	Apr 2025	8.198	Apr 2026	4.947	Apr 2027	-		4.947	Continuing	Continuing	-
Subtotal			-	3.696		8.198		4.947		-		4.947	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	TBD : TBD	-	1.082	Oct 2025	-		-		-		-	Continuing	Continuing	-
Subtotal			-	1.082		-		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	4.778		8.198		4.947		-		4.947	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force						Date: April 2026					
Appropriation/Budget Activity						R-1 Program Element (Number/Name)					
3600 / 5						PE 0804772F / Training Developments					
						Project (Number/Name)					
						652400 / Training Developments					

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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	2026	2	2031

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force **Date:** April 2026

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 1203176F <i>I Combat Survivor Evader Locator</i>

COST (\$ in Millions)	Prior Years	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
Total Program Element	0.000	0.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.983
654522: CSAR EMD	0.000	0.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.983
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Beginning in FY 2026, all efforts for PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) will be executed from PE 0207279F (Isolated Personnel Survivability and Recovery) Project 654522 (CSAR EMD) in order to consolidate program efforts and reduce the quantity of program elements. This funding document is for the FY 2025 year of execution.

A. Mission Description and Budget Item Justification

No FY 2027 funding requested.

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 included all necessary 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, and 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 2027 Air Force				Date: April 2026		
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				
B. Program Change Summary (\$ in Millions)		FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total
Previous President's Budget		1.135	0.000	0.000	0.000	0.000
Current President's Budget		0.983	0.000	0.000	0.000	0.000
Total Adjustments		-0.152	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		-0.152	0.000	0.000	0.000	0.000
Change Summary Explanation						
The FY 2025 funding request was reduced by \$0.152 million to account for the availability of prior year execution balances.						
The FY2026 President's Budget submittal did not reflect the FY2027 through FY2030 funding. Therefore, an explanation of the changes between the two budget positions for FY2027 cannot be made in a relevant manner.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2025	FY 2026	FY 2027
Title: CSEL Portable Interrogator				0.983	0.000	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 2026 Plans: Beginning in FY 2026, all efforts for PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) will be executed from PE 0207279F (Isolated Personnel Survivability and Recovery) Project 654522 (CSAR EMD) in order to consolidate program efforts and reduce the quantity of program elements.						
FY 2027 Plans: Beginning in FY 2026, all efforts for PE 1203176F (Combat Survivor Evader Locator) Project 654522 (CSAR EMD) will be executed from PE 0207279F (Isolated Personnel Survivability and Recovery) Project 654522 (CSAR EMD)						
Accomplishments/Planned Programs Subtotals				0.983	0.000	0.000

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Exhibit R-2, RDT&E Budget Item Justification: PB 2027 Air Force										Date: April 2026	
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 1203176F <i>I Combat Survivor Evader Locator</i>					
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2025	FY 2026	FY 2027 Base	FY 2027 OOC	FY 2027 Total	FY 2028	FY 2029	FY 2030	FY 2031	Cost To Complete	Total Cost
• RDTE 05 0207279F: <i>Isolated Personnel Survivability and Recovery</i>	5.672	53.948	16.001	-	16.001	14.134	8.417	6.604	6.814	Continuing	Continuing
• OPAF 03 1203176F: <i>Combat Survivor Evader Locator</i>	1.778	0.000	0.000	-	0.000	0.000	0.000	0.000	-	0.000	1.778
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 2027 Air Force													Date: April 2026		
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 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.885	Dec 2024	-		-		-		-	0.000	0.885	-
Subtotal			-	0.885		-		-		-		-	0.000	0.885	N/A
Management Services (\$ in Millions)				FY 2025		FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	0.098	Dec 2024	-		-		-		-	0.000	0.098	-
Subtotal			-	0.098		-		-		-		-	0.000	0.098	N/A
			Prior Years	FY 2025	FY 2026		FY 2027 Base		FY 2027 OOC		FY 2027 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	0.983	-		-		-		-	0.000	0.983	N/A	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2027 Air Force			Date: April 2026		
Appropriation/Budget Activity 3600 / 5			R-1 Program Element (Number/Name) PE 1203176F / Combat Survivor Evader L ocator		
			Project (Number/Name) 654522 / CSAR EMD		

	FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030				FY 2031			
	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 2027 Air Force		Date: April 2026
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