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**Department of Defense
Fiscal Year (FY) 2025 Budget Estimates**

March 2024



Army

Justification Book Volume 4a of 4

Research, Development, Test & Evaluation, Army

RDT&E – Volume III, Budget Activity 6

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Army • Budget Estimates FY 2025 • RDT&E Program

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RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY
APPROPRIATION LANGUAGE

For expenses necessary for basic and applied scientific research, development, test and evaluation, including maintenance, rehabilitation, lease, and operation of facilities and equipment, \$14,073,308,000.00 to remain available for obligation until September 30, 2026.

The FY 2025 Overseas Operational Costs accounted for in the Base budget total \$3,157 thousand.

FY 2023 includes \$7,626 thousand in Overseas Operations Costs (OOC) Actuals. FY 2024 includes \$3,166 thousand in OOC Requested. FY 2025 includes \$3,157 thousand for the OOC Budget Estimate. OOC were financed previously with former Overseas Contingency Operations (OCO) funding.

COST STATEMENT

The following Justification Books were prepared at a cost of \$277,115.51 Aircraft (ACFT), Missiles (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 – Tactical & Support Vehicles, Other Procurement Army (OPA) 2 – Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 5D, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

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FY 2025 RDT&E, ARMY PROGRAM ELEMENT DESCRIPTIVE SUMMARIES
Introduction and Explanation of Contents

1. **General.** The purpose of this document is to provide summary information concerning the Research, Development, Test and Evaluation, Army program. The descriptive summaries are comprised of R-2 (Army RDT&E Budget Item Justification – program element level), R-2A (Army RDT&E Budget Item Justification – project level), R-3 (Army RDT&E Cost Analysis), R-4 (Schedule Profile Detail) and R-5 (Termination Liability Funding for MDAPs) Exhibits, which provide narrative information on all RDT&E program elements and projects through FY 2025.

2. **Relationship of the FY 2025 Budget Submitted to Congress to the FY 2024 Budget Submitted to Congress.** This paragraph provides a list of program elements/projects that are major new starts and terminated programs. Explanations for these changes can be found in the narrative sections of the Program Element R-2A Exhibits.

New Start Programs:

<i><u>Budget Activity</u></i>	<i><u>OSDPE / Project</u></i>	<i><u>Project Title</u></i>
02	0602148A / CC3	FVL Radar Technologies
02	0602183A / DK1	Air Vehicle Integrated & Alternative Tech (AVIATe)
02	0602386A / SM1	Scale-Up Microbial Products for Biomanufacturing
02	0602150A / SU1	Counter Small Unmanned Aircraft Sys (C-sUAS) Tech
03	0603464A / CE9	Armaments Advanced Technology
03	0603119A / DI9	Comprehensive Adapt Operational Energy Adv Tech
03	0603043A / DK2	Air Vehicle Improvement & Adv Tech (AVIATe)
03	0603044A / EA7	Enhanced Indirect Fire Adv Tech
03	0603466A / IB1	Integrated Beam Control Systems Demo for C-CM
03	0603116A / LR1	Long Range Sensing Adv Tech
03	0603465A / CK2	High Speed Maneuverable Missile (HSMM) Adv Tech
03	0603042A / DI6	Anti-Tamper Advanced Tech Development
04	0604386A / CQ9	Biotechnology for Materials - Dem/Val
04	0604019A / DJ5	Multi-Domain Artillery Cannon System (MDACS)
04	0305251A / FA8	Cyberspace Operations Forces and Force Support
04	0603639A / FG1	Cannon-Delivered Area Effects Munitions (C-DAEM)
04	0603639A / XT5	30mm Anti-Personnel and Counter UAS

05	0604805A / DH4	CMOSS Mounted Form Factor (CMFF) Radio Cards
05	0604710A / DI5	FALCONS
05	0605244A / DJ3	Joint Reduced Range Rocket
05	0605242A / DJ4	Theater SIGINT System (TSIGS)
05	0605247A / DJ8	Spectrum Situational Awareness System (S2AS)
05	0605054A / DJ9	Guam Defense System - Management
05	0604854A / DH7	Next Generation Howitzer
05	0604818A / DK3	Sensor Computing Environment (SCE)
05	0604713A / EL2	Army Field Feeding Equipment
05	0605038A / EQ7	NBC Reconnaissance Vehicle (NBCRV) Sensor Suite
05	0605051A / ITD	Improved Threat Detection System (ITDS)
05	0604827A / LS2	Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev
05	0604802A / MS1	Battalion Mortar System Modernization
05	0605241A / DG5	Future Long Range Assault Aircraft
05	0604805A / DH5	CMOSS Mounted Form Factor (CMFF)Chassis
06	0605805A / 857	DoD Explosives Safety Standards
07	0607101A / DJ7	Radiological Detection System Development

Program Terminations (including transfers to Procurement and Sustainment):

<u>Budget Activity</u>	<u>OSDPE / Project</u>	<u>Project Title</u>
02	0602002A / DC5	Team Ignite
02	0602145A / BI4	Materials Application and Integration Tech
03	0603464A / AG5	Extended Range Artillery Munition Suite Adv Tech
03	0603118A / AY7	Small Arms Fire Control Advanced Technology
03	0603118A / BB8	Soldier Centric Advanced Technology
03	0603462A / BI5	Materials Application and Integration Adv Tech
03	0603462A / BK4	Next Gen Intelligent Fire Control(NG-IFC) Adv Tech

03	0603041A / CM8	Convergence Battlefield Integration
04	0603801A / CK7	FARA Ecosystem
04	0603801A / F12	Future Attack Reconnaissance Aircraft
04	0604120A / EJ2	MOUNTED
04	0604120A / BV4	Area Protection and Alt Nav Technology Development
05	0604802A / EP2	Shoulder-Launched Munitions
05	0604802A / EP4	One-Way Luminescence for Small Caliber Ammo
05	0604802A / FA6	30mm Lethality
05	0604818A / EJ6	TACTICAL ENHANCEMENT
05	0605041A / CY5	CYBER Situational Understanding
05	0605053A / BS9	Robotic Payloads
05	0604808A / CS3	Next Generation Advanced Bomb Suit (NGABS)
06	0605326A / 33B	Soldier-Centered Analyses For Future Force
07	0203735A / 280	RECOV VEH IMPROV PROG
07	0303028A / FG2	Counterintelligence & Human Intel Modernization
07	0607142A / EW9	Aviation Rocket System Product Improvement and Dev

3. **Classification:** This document contains no classified data. Appropriately cleared individuals can obtain further information on Classified/Special Access Programs by contacting the Department of the Army.

Department of the Army
 FY 2025 President's Budget
 Exhibit R-1 FY 2025 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Mar 2024

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2023	FY 2024 PB	FY 2025
					Actuals	Request with CR Adjustments*	Request
1	0601102A	Defense Research Sciences	01	U	386,594	296,670	310,191
2	0601103A	University Research Initiatives	01	U	97,598	75,672	78,166
3	0601104A	University and Industry Research Centers	01	U	119,270	108,946	109,726
4	0601121A	Cyber Collaborative Research Alliance	01	U	5,355	5,459	5,525
5	0601601A	Artificial Intelligence and Machine Learning Basic Research	01	U	7,985	10,708	10,309
	Basic Research				616,802	497,455	513,917
6	0602002A	Army Agile Innovation and Development-Applied Research	02	U	127	5,613	8,032
7	0602134A	Counter Improvised-Threat Advanced Studies	02	U	5,966	6,242	6,163
8	0602141A	Lethality Technology	02	U	180,191	85,578	96,094
9	0602142A	Army Applied Research	02	U	27,833	34,572	
10	0602143A	Soldier Lethality Technology	02	U	266,501	104,470	102,236
11	0602144A	Ground Technology	02	U	256,916	60,005	66,707
12	0602145A	Next Generation Combat Vehicle Technology	02	U	273,166	166,500	149,108
13	0602146A	Network C3I Technology	02	U	221,293	81,618	84,576
14	0602147A	Long Range Precision Fires Technology	02	U	113,099	34,683	32,089
15	0602148A	Future Verticle Lift Technology	02	U	103,022	73,844	52,685
16	0602150A	Air and Missile Defense Technology	02	U	94,972	33,301	39,188
17	0602180A	Artificial Intelligence and Machine Learning Technologies	02	U	15,481	24,142	20,319
18	0602181A	All Domain Convergence Applied Research	02	U	26,362	14,297	12,269
19	0602182A	C3I Applied Research	02	U	26,913	30,659	25,839
20	0602183A	Air Platform Applied Research	02	U	40,372	48,163	53,206
21	0602184A	Soldier Applied Research	02	U	15,427	18,986	21,069

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					FY 2023 Actuals	Request with CR Adjustments*	
22	0602213A	C3I Applied Cyber	02	U	13,605	22,714	28,656
23	0602386A	Biotechnology for Materials - Applied Research	02	U	21,015	16,736	11,780
25	0602785A	Manpower/Personnel/Training Technology	02	U	19,343	19,969	19,795
26	0602787A	Medical Technology	02	U	79,851	66,266	68,481
999	999999999	Classified Programs	02	U			35,766
Applied Research					1,801,455	948,358	934,058
27	0603002A	Medical Advanced Technology	03	U	31,398	4,147	3,112
28	0603007A	Manpower, Personnel and Training Advanced Technology	03	U	15,146	16,316	16,716
29	0603025A	Army Agile Innovation and Demonstration	03	U	17,757	23,156	14,608
30	0603040A	Artificial Intelligence and Machine Learning Advanced Technologies	03	U	6,162	13,187	18,263
31	0603041A	All Domain Convergence Advanced Technology	03	U	40,955	33,332	23,722
32	0603042A	C3I Advanced Technology	03	U	12,252	19,225	22,814
33	0603043A	Air Platform Advanced Technology	03	U	13,062	14,165	17,076
34	0603044A	Soldier Advanced Technology	03	U	462	1,214	10,133
35	0603116A	Lethality Advanced Technology	03	U	11,460	20,582	33,969
36	0603117A	Army Advanced Technology Development	03	U	138,774	136,280	
37	0603118A	Soldier Lethality Advanced Technology	03	U	150,020	102,778	94,899
38	0603119A	Ground Advanced Technology	03	U	415,104	40,597	45,880
39	0603134A	Counter Improvised-Threat Simulation	03	U	20,782	21,672	21,398
40	0603386A	Biotechnology for Materials - Advanced Research	03	U	54,778	59,871	36,360
41	0603457A	C3I Cyber Advanced Development	03	U	41,354	28,847	19,616
42	0603461A	High Performance Computing Modernization Program	03	U	293,043	255,772	239,597
43	0603462A	Next Generation Combat Vehicle Advanced Technology	03	U	467,533	217,394	175,198

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					FY 2023 Actuals	Request with CR Adjustments	
44	0603463A	Network C3I Advanced Technology	03	U	174,768	105,549	94,424
45	0603464A	Long Range Precision Fires Advanced Technology	03	U	225,921	153,024	164,943
46	0603465A	Future Vertical Lift Advanced Technology	03	U	265,429	158,795	140,578
47	0603466A	Air and Missile Defense Advanced Technology	03	U	108,758	21,015	28,333
49	0603920A	Humanitarian Demining	03	U	20,674	9,068	9,272
999	999999999	Classified Programs	03	U			155,526
		Advanced Technology Development			2,525,592	1,455,986	1,386,437
51	0603305A	Army Missile Defense Systems Integration	04	U	117,723	12,904	13,031
52	0603308A	Army Space Systems Integration	04	U	30,453	19,120	19,659
53	0603327A	Air and Missile Defense Systems Engineering	04	U	15,000		
54	0603619A	Landmine Warfare and Barrier - Adv Dev	04	U	59,911	47,537	58,617
55	0603639A	Tank and Medium Caliber Ammunition	04	U	49,609	91,323	116,027
56	0603645A	Armored System Modernization - Adv Dev	04	U	133,300	43,026	23,235
57	0603747A	Soldier Support and Survivability	04	U	4,030	3,550	4,059
58	0603766A	Tactical Electronic Surveillance System - Adv Dev	04	U	72,364	65,567	90,265
59	0603774A	Night Vision Systems Advanced Development	04	U	96,819	73,675	64,113
60	0603779A	Environmental Quality Technology - Dem/Val	04	U	75,614	31,720	34,091
61	0603790A	NATO Research and Development	04	U	3,666	4,143	4,184
62	0603801A	Aviation - Adv Dev	04	U	1,113,295	1,502,160	6,591
63	0603804A	Logistics and Engineer Equipment - Adv Dev	04	U	24,287	7,604	12,445
64	0603807A	Medical Systems - Adv Dev	04	U	5,598	1,602	582
65	0603827A	Soldier Systems - Advanced Development	04	U	20,807	27,681	24,284
66	0604017A	Robotics Development	04	U	27,444	3,024	3,039
67	0604019A	Expanded Mission Area Missile (EMAM)	04	U	250,351	97,018	102,589

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					FY 2023 Actuals	Request with CR Adjustments	
68	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	04	U	74,189	117,557	63,831
69	0604035A	Low Earth Orbit (LEO) Satellite Capability	04	U	34,213	38,851	21,935
70	0604036A	Multi-Domain Sensing System (MDSS) Adv Dev	04	U	47,915	191,394	239,135
71	0604037A	Tactical Intel Targeting Access Node (TITAN) Adv Dev	04	U	863	10,626	4,317
72	0604100A	Analysis Of Alternatives	04	U	10,270	11,095	11,234
73	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04	U	1,373	5,144	1,800
74	0604103A	Electronic Warfare Planning and Management Tool (EWPMT)	04	U		2,260	2,004
75	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	U	134,719	53,143	127,870
76	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	U	366,637	816,663	149,463
77	0604115A	Technology Maturation Initiatives	04	U	209,220	281,314	252,000
78	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	U	269,186	281,239	315,772
79	0604119A	Army Advanced Component Development & Prototyping	04	U	198,111	204,914	
80	0604120A	Assured Positioning, Navigation and Timing (PNT)	04	U	54,728	40,930	24,168
81	0604121A	Synthetic Training Environment Refinement & Prototyping	04	U	236,396	109,714	136,029
82	0604134A	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	U	14,298	16,426	17,341
83	0604135A	Strategic Mid-Range Fires	04	U	379,535	31,559	
84	0604182A	Hypersonics	04	U	309,068	43,435	
85	0604386A	Biotechnology for Materials - Dem/Val	04	U			20,862
86	0604403A	Future Interceptor	04	U	7,880	8,040	8,058
88	0604531A	Counter - Small Unmanned Aircraft Systems Advanced Development	04	U	36,629	64,242	59,983
90	0604541A	Unified Network Transport	04	U	35,616	40,915	31,837

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					FY 2023 Actuals	Request with CR Adjustments ¹	
91	0305251A	Cyberspace Operations Forces and Force Support	04	U	55,599		2,270
999	999999999	Classified Programs	04	U		19,200	277,181
	Advanced Component Development & Prototypes				4,576,716	4,420,315	2,343,901
92	0604201A	Aircraft Avionics	05	U	3,213	13,673	7,171
93	0604270A	Electronic Warfare Development	05	U	3,987	12,789	35,942
94	0604601A	Infantry Support Weapons	05	U	80,115	64,076	52,586
95	0604604A	Medium Tactical Vehicles	05	U	21,354	28,226	15,088
96	0604611A	JAVELIN	05	U	15,899	7,827	10,405
97	0604622A	Family of Heavy Tactical Vehicles	05	U	51,261	44,197	50,011
98	0604633A	Air Traffic Control	05	U	2,527	1,134	982
99	0604641A	Tactical Unmanned Ground Vehicle (TUGV)	05	U	107,975	142,125	92,540
100	0604642A	Light Tactical Wheeled Vehicles	05	U	13,667	53,564	100,257
101	0604645A	Armored Systems Modernization (ASM) - Eng Dev	05	U	60,827	102,201	48,097
102	0604710A	Night Vision Systems - Eng Dev	05	U	89,273	48,720	89,259
103	0604713A	Combat Feeding, Clothing, and Equipment	05	U	1,509	2,223	3,286
104	0604715A	Non-System Training Devices - Eng Dev	05	U	17,910	21,441	28,427
105	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	05	U	54,244	74,738	69,653
106	0604742A	Constructive Simulation Systems Development	05	U	28,404	30,985	30,097
107	0604746A	Automatic Test Equipment Development	05	U	4,989	13,626	12,927
108	0604760A	Distributive Interactive Simulations (DIS) - Eng Dev	05	U	7,890	8,802	8,914
109	0604798A	Brigade Analysis, Integration and Evaluation	05	U	22,207	20,828	26,352
110	0604802A	Weapons and Munitions - Eng Dev	05	U	284,859	243,851	242,949
111	0604804A	Logistics and Engineer Equipment - Eng Dev	05	U	74,150	37,420	41,829

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Line No	Program Element Number	Item	Act	Sec	FY 2023	FY 2024 PB	FY 2025
					Actuals	Request with CR Adjustments*	Request
112	0604805A	Command, Control, Communications Systems - Eng Dev	05	U	43,533	34,214	92,300
113	0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	05	U	25,035	6,496	7,143
114	0604808A	Landmine Warfare/Barrier - Eng Dev	05	U	36,707	13,581	19,134
115	0604818A	Army Tactical Command & Control Hardware & Software	05	U	128,240	168,574	165,229
116	0604820A	Radar Development	05	U	77,158	94,944	76,090
117	0604822A	General Fund Enterprise Business System (GFEBs)	05	U	10,022	2,965	1,995
118	0604827A	Soldier Systems - Warrior Dem/Val	05	U	19,237	11,333	29,132
119	0604852A	Suite of Survivability Enhancement Systems - EMD	05	U	75,520	79,250	77,864
120	0604854A	Artillery Systems - EMD	05	U	42,261	42,490	50,495
121	0605013A	Information Technology Development	05	U	85,713	104,024	120,076
122	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	05	U	65,055	102,084	126,354
123	0605030A	Joint Tactical Network Center (JTNC)	05	U	17,274	18,662	20,191
124	0605031A	Joint Tactical Network (JTN)	05	U	29,050	30,328	31,214
125	0605035A	Common Infrared Countermeasures (CIRCM)	05	U	9,602	11,509	11,691
126	0605036A	Combating Weapons of Mass Destruction (CWMD)	05	U		1,050	7,846
127	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	05	U			7,886
128	0605041A	Defensive CYBER Tool Development	05	U	33,029	27,714	4,176
129	0605042A	Tactical Network Radio Systems (Low-Tier)	05	U	4,265	4,318	4,288
130	0605047A	Contract Writing System	05	U	13,220	16,355	9,276
131	0605049A	Missile Warning System Modernization (MWSM)	05	U		27,571	
132	0605051A	Aircraft Survivability Development	05	U	18,425	24,900	38,225
133	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	05	U	126,308	196,248	167,912
134	0605053A	Ground Robotics	05	U	25,131	35,319	28,378

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Line No	Program Element Number	Item	Act	Sec	FY 2024 PB		FY 2025 Request
					FY 2023 Actuals	Request with CR Adjustments	
135	0605054A	Emerging Technology Initiatives	05	U	212,750	201,274	164,734
136	0605143A	Biometrics Enabling Capability (BEC)	05	U	9,186		
137	0605144A	Next Generation Load Device - Medium	05	U	24,094	36,970	2,931
138	0605148A	Tactical Intel Targeting Access Node (TITAN) EMD	05	U	103,987	132,136	157,036
139	0605203A	Army System Development & Demonstration	05	U	143,616	81,657	
140	0605205A	Small Unmanned Aerial Vehicle (SUAV) (6.5)	05	U	6,292	31,284	37,876
141	0605206A	CI and HUMINT Equipment Program-Army (CIHEP-A)	05	U		2,170	1,296
142	0605216A	Joint Targeting Integrated Command and Coordination Suite (JTIC2S)	05	U		9,290	28,553
143	0605224A	Multi-Domain Intelligence	05	U	6,008	41,003	18,913
144	0605231A	Precision Strike Missile (PrSM)	05	U	250,034	272,786	184,046
145	0605232A	Hypersonics EMD	05	U	533,520	900,920	538,017
146	0605233A	Accessions Information Environment (AIE)	05	U	9,720	27,361	32,265
147	0605235A	Strategic Mid-Range Capability	05	U	4,833	348,855	182,823
148	0605236A	Integrated Tactical Communications	05	U	11,993	22,901	23,363
149	0605241A	Future Long Range Assault Aircraft Development	05	U			1,253,637
150	0605242A	Theater SIGINT System (TSIGS)	05	U			6,660
151	0605244A	Joint Reduced Range Rocket (JR3)	05	U			13,565
152	0605247A	Spectrum Situational Awareness System (S2AS)	05	U			9,330
153	0605450A	Joint Air-to-Ground Missile (JAGM)	05	U	2,280	3,014	3,030
154	0605457A	Army Integrated Air and Missile Defense (AIAMD)	05	U	245,791	284,095	602,045
155	0605531A	Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration	05	U	11,548	36,016	59,563
157	0605625A	Manned Ground Vehicle	05	U	519,131	996,653	504,841
158	0605766A	National Capabilities Integration (MIP)	05	U	16,790	15,129	16,565

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					FY 2023 Actuals	Request with CR Adjustments ⁺	
159	0605812A	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)	05	U	9,033	27,243	27,013
160	0605830A	Aviation Ground Support Equipment	05	U	2,851	1,167	979
161	0303032A	TROJAN - RH12	05	U	3,761	3,879	3,930
162	0303767A	AMBIT - Pre-Auctioned SRF	05	U	21,730		
163	0304270A	Electronic Warfare Development	05	U	97,616	137,186	131,096
999	999999999	Classified Programs	05	U			83,136
System Development & Demonstration					4,077,609	5,639,364	6,150,910
164	0604256A	Threat Simulator Development	06	U	138,264	38,492	71,298
165	0604258A	Target Systems Development	06	U	53,434	11,873	15,788
166	0604759A	Major T&E Investment	06	U	144,173	76,167	78,613
167	0605103A	Rand Arroyo Center	06	U	30,800	37,078	38,122
168	0605301A	Army Kwajalein Atoll	06	U	297,859	314,872	321,755
169	0605326A	Concepts Experimentation Program	06	U	83,668	95,551	86,645
170	0605502A	Small Business Innovative Research	06	U	382,638		
171	0605601A	Army Test Ranges and Facilities	06	U	414,662	439,118	461,085
172	0605602A	Army Technical Test Instrumentation and Targets	06	U	72,760	42,220	75,591
173	0605604A	Survivability/Lethality Analysis	06	U	35,750	37,518	37,604
174	0605606A	Aircraft Certification	06	U	4,777	2,718	2,201
175	0605702A	Meteorological Support to RDT&E Activities	06	U	6,820		
176	0605706A	Materiel Systems Analysis	06	U	22,004	26,902	27,420
177	0605709A	Exploitation of Foreign Items	06	U	6,186	7,805	6,245
178	0605712A	Support of Operational Testing	06	U	69,879	75,133	76,088
179	0605716A	Army Evaluation Center	06	U	67,058	71,118	73,220

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 Exhibit R-1 FY 2025 President's Budget
 Total Obligational Authority

Mar 2024

(Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2024 PB		FY 2025 Request
					FY 2023 Actuals	Request with CR Adjustments	
180	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	U	5,874	11,204	11,257
181	0605801A	Programwide Activities	06	U	88,780	93,895	91,895
182	0605803A	Technical Information Activities	06	U	36,821	31,327	32,385
183	0605805A	Munitions Standardization, Effectiveness and Safety	06	U	59,088	50,409	50,766
184	0605857A	Environmental Quality Technology Mgmt Support	06	U	1,842	1,629	1,659
185	0605898A	Army Direct Report Headquarters - R&D - MHA	06	U	53,003	55,843	59,727
186	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	U	85,873	91,340	73,400
187	0606003A	CounterIntel and Human Intel Modernization	06	U	1,424	6,348	4,574
188	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	U	5,816	6,025	10,105
189	0909999A	Financing for Cancelled Account Adjustments	06	U	135		
Management Support					2,169,388	1,624,585	1,707,443
190	0603778A	MLRS Product Improvement Program	07	U	17,790	14,465	14,188
191	0605024A	Anti-Tamper Technology Support	07	U	9,028	7,472	7,489
192	0607101A	Combating Weapons of Mass Destruction (CWMD) Product Improvement	07	U			271
193	0607131A	Weapons and Munitions Product Improvement Programs	07	U	54,216	8,425	9,363
194	0607136A	Blackhawk Product Improvement Program	07	U		1,507	25,000
195	0607137A	Chinook Product Improvement Program	07	U	65,596	9,265	4,816
196	0607139A	Improved Turbine Engine Program	07	U	219,713	201,247	67,029
197	0607142A	Aviation Rocket System Product Improvement and Development	07	U	10,899	3,014	
198	0607143A	Unmanned Aircraft System Universal Products	07	U	10,493	25,393	24,539
199	0607145A	Apache Future Development	07	U	26,607	10,547	8,243
200	0607148A	AN/TPQ-53 Counterfire Target Acquisition Radar System	07	U	59,312	54,167	53,652
201	0607150A	Intel Cyber Development	07	U	13,343	4,345	9,753

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Department of the Army
 FY 2025 President's Budget
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 Total Obligational Authority

Mar 2024

(Dollars in Thousands)

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2023	FY 2024 PB	FY 2025
					Actuals	Request with CR Adjustments	Request
202	0607312A	Army Operational Systems Development	07	U	26,131	19,000	
203	0607313A	Electronic Warfare Development	07	U	11,417	6,389	5,559
204	0607315A	Enduring Turbine Engines and Power Systems	07	U		2,411	2,620
206	0607665A	Family of Biometrics	07	U	1,073	797	590
207	0607865A	Patriot Product Improvement	07	U	146,753	177,197	168,458
208	0203728A	Joint Automated Deep Operation Coordination System (JADOCS)	07	U	18,606	42,177	27,582
209	0203735A	Combat Vehicle Improvement Programs	07	U	187,377	146,635	272,926
210	0203743A	155mm Self-Propelled Howitzer Improvements	07	U	112,257	122,902	55,205
211	0203752A	Aircraft Engine Component Improvement Program	07	U	148	146	142
212	0203758A	Digitization	07	U		1,515	1,562
213	0203801A	Missile/Air Defense Product Improvement Program	07	U	2,996	4,520	1,511
214	0203802A	Other Missile Product Improvement Programs	07	U	8,698	10,044	23,708
215	0205412A	Environmental Quality Technology - Operational System Dev	07	U	764	281	269
216	0205778A	Guided Multiple-Launch Rocket System (GMLRS)	07	U	19,443	75,952	20,590
217	0208053A	Joint Tactical Ground System	07	U	8,813	203	
220	0303028A	Security and Intelligence Activities	07	U		301	
221	0303140A	Information Systems Security Program	07	U	15,554	15,323	15,733
222	0303141A	Global Combat Support System	07	U	21,775	13,082	2,566
223	0303142A	SATCOM Ground Environment (SPACE)	07	U	14,551	26,838	26,643
226	0305179A	Integrated Broadcast Service (IBS)	07	U	9,426	9,456	5,701
227	0305204A	Tactical Unmanned Aerial Vehicles	07	U	4,500		
228	0305206A	Airborne Reconnaissance Systems	07	U	6,402		
229	0305219A	MQ-1 Gray Eagle UAV	07	U		6,629	6,681

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 Total Obligational Authority
 (Dollars in Thousands)

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Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2023	FY 2024 PB	FY 2025
					Actuals	Request with CR Adjustments*	Request
230	0708045A	End Item Industrial Preparedness Activities	07	U	128,617	75,317	67,187
999	999999999	Classified Programs	07	U	6,664	8,786	32,518
Operational Systems Development					1,238,962	1,105,748	962,094
231	0608041A	Defensive CYBER - Software Prototype Development	08	U	92,460	83,570	74,548
Software And Digital Technology Pilot Programs					92,460	83,570	74,548
232	0901560A	Continuing Resolution Programs	20	U		1,366,740	
Undistributed						1,366,740	
Total Research, Development, Test and Evaluation, Army					17,098,984	17,142,121	14,073,308

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

*FY 2023 includes \$7,626 thousand in Overseas Operations Costs (OOC) Actuals. FY 2024 includes \$3,166 thousand in OOC Requested. FY 2025 includes \$3,157 thousand for the OOC Budget Estimate. OOC were financed previously with former Overseas Contingency Operations (OCO) funding.

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166	06	0604759A	Major T&E Investment.....	Volume 4a - 22
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169	06	0605326A	Concepts Experimentation Program.....	Volume 4a - 65
170	06	0605502A	Small Business Innovative Research.....	Volume 4a - 78
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183	06	0605805A	Munitions Standardization, Effectiveness and Safety.....	Volume 4a - 183
184	06	0605857A	Environmental Quality Technology Mgmt Support.....	Volume 4a - 208
185	06	0605898A	Army Direct Report Headquarters - R&D - MHA.....	Volume 4a - 215
186	06	0606002A	Ronald Reagan Ballistic Missile Defense Test Site.....	Volume 4a - 222
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Army Modeling & Sim X-Cmd Collaboration & Integ	0605718A	180	06.....	Volume 4a - 137
Army Technical Test Instrumentation and Targets	0605602A	172	06.....	Volume 4a - 98
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Support of Operational Testing	0605712A	178	06.....	Volume 4a - 127
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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0604256A / <i>Threat Simulator Development</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	138.264	38.492	71.298	-	71.298	52.692	52.009	52.868	52.578	0.000	458.201
976: <i>Army Threat Sim (ATS)</i>	-	138.264	38.492	71.298	-	71.298	52.692	52.009	52.868	52.578	0.000	458.201

A. Mission Description and Budget Item Justification

This Program Element (PE) supports the design, development, acquisition, integration and fielding of realistic mobile threat simulators and realistic threat simulation products utilized in Army/Department of Defense (DoD) test and evaluation (T&E) and developmental and operational tests. This PE originally funded simulators representing Soviet equipment, but scope was expanded to address emerging world threats. Army Threat Simulator and Threat Simulation products are utilized to populate test battlefields for United States (U.S.) Army Test and Evaluation Command (ATEC), to conduct developmental and operational tests, and to support Program Executive Office for Simulation, Training and Instrumentation (PEO STRI) required user testing in System Integration Laboratories (SILs) and hardware/simulation in-the-loop facilities. These battlefield simulators represent adversary systems (e.g. missile systems, command, control and communications systems, electronic warfare systems, etc.) in order to portray a realistic threat environment during testing of U.S. weapon systems.

Army Threat Simulator and Threat Simulation products developed or fielded under this PE support Army-wide, non-system-specific threat product requirements. Each capability is pursued in concert and coordination with existing Army/DoD and Tri-Service capabilities to eliminate duplication of effort. Simulator development is responsive to Office of the Secretary of Defense and Government Accountability Office guidance for the Army to conduct operational testing in a realistic threat environment. Actual threat equipment is acquired when appropriate (in lieu of development) and total package fielding is still required (i.e., instrumentation, operations and maintenance, manuals, new equipment training, etc.). Threat simulator development is accomplished under the auspices of the Project Manager for Cyber Test and Training (PM CT2) and the Director, Operational Test and Evaluation (DOT&E) Threat Simulator Investment Working Group.

This funding line supports testing of Army Modernization Priority Programs.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	138.937	38.492	33.544	-	33.544
Current President's Budget	138.264	38.492	71.298	-	71.298
Total Adjustments	-0.673	0.000	37.754	-	37.754
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.673	-			
• Adjustments to Budget Years	-	-	37.754	-	37.754

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity
 2040: *Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support*

R-1 Program Element (Number/Name)
 PE 0604256A / *Threat Simulator Development*

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

Project: 976: *Army Threat Sim (ATS)*

- Congressional Add: *Cyber Security Operations Center*
- Congressional Add: *Supply Chain Illumination to Counter Emerging Threats*
- Congressional Add: *Threat Counter Artificial Intelligence*
- Congressional Add: *UAS Center of Excellence*

Congressional Add Subtotals for Project: 976

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	90.500	-
	5.000	-
	12.500	-
	12.500	-
Congressional Add Subtotals for Project: 976	120.500	-
Congressional Add Totals for all Projects	120.500	-

Change Summary Explanation

The Army has identified significant shortfalls in Electronic Warfare (EW) and Information Warfare (IW) threat systems. The funding increase addresses the shortfall and will enable the Army to replicate an operationally realistic EW threat during test events.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604256A / <i>Threat Simulator Development</i>				Project (Number/Name) 976 / <i>Army Threat Sim (ATS)</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
976: <i>Army Threat Sim (ATS)</i>	-	138.264	38.492	71.298	-	71.298	52.692	52.009	52.868	52.578	0.000	458.201
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the design, development, acquisition, integration, and fielding of realistic mobile threat simulators and realistic threat simulation products utilized in Army/Department of Defense (DoD) test and evaluation and developmental and operational tests. This Project originally funded simulators representing Soviet equipment, but scope was expanded to address emerging world threats. Army Threat Simulator and Threat Simulation products are utilized to populate test battlefields for the United States Army Test and Evaluation Command (ATEC), to conduct developmental and operational tests, and to support Program Executive Office for Simulation, Training and Instrumentation (PEO STRI) required user testing in System Integration Laboratories and hardware/simulation in-the-loop facilities. These battlefield simulators represent adversary systems (e.g. missile systems, command, control and communication systems, electronic warfare systems, etc.) in order to portray a realistic threat environment during testing of U.S. weapon systems.

Army Threat Simulator and Threat Simulation products developed or fielded under this Project support Army-wide, non-system-specific threat product requirements. Each capability is pursued in concert and coordination with existing Army/DoD and Tri-Service capabilities to eliminate duplication of effort. Simulator development is responsive to Office of the Secretary of Defense and Government Accountability Office guidance for the Army to conduct operational testing in a realistic threat environment. Actual threat equipment is acquired when appropriate (in lieu of development) and total package fielding is still required (i.e., instrumentation, operations and maintenance, manuals, new equipment training, etc.) Threat simulator development is accomplished under the auspices of the Project Manager for Cyber Test and Training and the Director, Operational Test and Evaluation Threat Simulator Investment Working Group.

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

	FY 2023	FY 2024	FY 2025
Title: Threat Information Warfare	5.652	7.799	21.405
<p>Description: Provides cyber red team personnel and Information Operations (IO) weapons, Command and Control (C2), infrastructure, and research for advanced threat capabilities targeting Army programs, systems, and commands. Provides funds for cyber training and certifications of on-net interactive operators, certified ethical hackers, mission leads, planners and logistics. Access to real-time Internet flow information used for characterization of near-peer threats and the application of this information to Army targets.</p> <p>FY 2024 Plans: Sustainment of existing threat-based Red Team capabilities, including previously developed toolsets and distributed operations infrastructure. Maintain Red Team Certification and Accreditation (C&A) required for on-network operations. Continued development of state and non-state threat targeting packages that are current, accurately profiling attack trends and timelines, intent, levels of sophistication, and threat training. These threat packages represent state and non-state level forces using</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604256A / <i>Threat Simulator Development</i>	Project (Number/Name) 976 / <i>Army Threat Sim (ATS)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>both active and passive network attack to selectively degrade or disrupt Command, Control, Communications, Computers (C4) Intelligence, Surveillance and Reconnaissance (C4ISR) and Enterprise Business Systems. Development of threat targets and networks as new real-world targets sets and capabilities evolve.</p> <p>FY 2025 Plans: Development of existing threat-based Red Team capabilities, including previously developed toolsets and the Red Team Shared Infrastructure (RTSI) - a distributed operations infrastructure. Infrastructure hardware refresh. Maintain Red Team Certification and Accreditation required for on-network operations. Continued development of state and non-state threat targeting packages that are current, accurately profiling attack trends and timelines, intent, levels of sophistication, and threat test and evaluation. These threat packages represent state and non-state level forces using both active and passive network attack to selectively degrade or disrupt Command, Control, Communications, Computers (C4), Intelligence, Surveillance and Reconnaissance (C4ISR), and Enterprise Business Systems. Persistently replicates Advance Persistent Threats from near-peer actors across the materiel enterprise (into operations) which threaten Army modernization and readiness. Development of threat targets and networks as new real-world targets sets and capabilities evolve.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 funding increase supports the development of higher fidelity Threat Information Warfare (TIW) capabilities in support of the increasing contested Information Operations (IO) domain. Increase also supports the replication of Advance Persistent Threats from near-peer actors across the materiel enterprise (into operations) which threaten Army modernization and readiness.</p>				
<p>Title: Threat Electronic Warfare</p> <p>Description: Develops Army Threat Electronic Warfare (EW) capabilities that will simulate a realistic anti-access/area denial (A2/AD) environment that will portray critical threats to U.S. DoD satellite communication (SATCOM), navigation, and command, control, and communication (C3I) networks. Develops specific EW capabilities to include cyber/EW convergence, tailored jamming in a complex radio frequency (RF) environment (air and ground), data spoofing, detection of Low Probability Intercept (LPI) waveforms, artificial intelligence (AI), network modeling, passive detection systems, and advanced electronic support systems such as Angle of Arrival (AoA) and Time Difference of Arrival (TDoA) against Low Probability of Detect (LPD) and Low Probability of Intercept (LPI) signals.</p> <p>Develops and prototypes Threat Electronic Support (ES) systems by leveraging state-of-the-art commercially available Software Defined Radio (SDR) technology incorporating Angle of Arrival (AoA), Time Difference of Arrival (TDoA), and/or Frequency Difference of arrival (FDoA) and integrates emerging processing techniques to include Machine Learning (ML) and Artificial Intelligence (AI). Provides a relevant and realistic threat battlespace environment inclusive of advanced ground and aerial sensor systems, low power ground surveillance systems, and other threat sensor systems employing non-RF applications (acoustic,</p>		7.861	27.100	44.388

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604256A / <i>Threat Simulator Development</i>	Project (Number/Name) 976 / <i>Army Threat Sim (ATS)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>seismic, and electro-optical/infrared). Integrates advanced sensor capabilities with existing threat Unmanned Aerial System (UAS) and threat command and control systems.</p> <p>Develops and prototypes Threat Electronic Attack (EA) systems by leveraging state-of-the-art commercially available SDR technology to develop jammers that function against numerous SUT operating on the full Radio Frequency (RF) spectrum. Provides jamming capabilities up to 40 GHz in order to target satellite uplinks, exploitable systems for Cyber & Electromagnetic Activities (CEMA), and a threat environment required for Multi-Domain Operations (MDO).</p> <p>Develops and prototypes a threat tactical communication replication effort that will leverage state-of-the-art commercially available SDR technology to present realistic signatures and Electronic Order of Battle (EOB) for the System Under Test (SUT). This system will cover threat tactical communication ranging from High Frequency (HF) to Super High Frequency (SHF). The Common Tactical Signal Emitter Program (CTSEP) will leverage intelligence community models to provide realistic, threat representative, signatures.</p> <p>Develops an affordable, common set of radar threat emitters based on commercial off-the-shelf (COTS) Software Defined Radios (SDR) technology to create a realistic RF signal dense threat environment for Multi-Domain Operations. Provides an affordable, common set of RF emitters needed to establish Tactical Communications and Gray-Space environments based on COTS SDR technology. Provides validated radar and communications digital models for use in a Live, Constructive, and Virtual environment as determined by Army Test & Evaluation Command (ATEC) to support Developmental Tests (DT) and Operational Tests (OT) for numerous Systems Under Test (SUT).</p> <p>FY 2024 Plans: Continue to develop and integrate electronic support sensors and electronic attack payloads to provide a robust and threat representative capability to support testing of Army systems. Threat Position, Navigation, and Timing (PNT) Jammer will consist of modifications and upgrades to ensure relevance by implementing additional capabilities within the PNT spectrum. Threat Systems Management Office will continue to support multiple Army test events including Joint Warfighting Assessment (JWA) and anticipated excursion test events for numerous Systems Under Test/ Programs of Record (SUT / POR) currently identified through FY 2024.</p> <p>FY 2025 Plans: Develop and integrate threat digital twin models, electronic support sensors and electronic attack payloads to provide a robust and threat representative capability to support testing of Army systems such as Terrestrial Layered System and Multi-Function Electronic Warfare System. Finalize development of Threat Position, Navigation, and Timing (PNT) Jamming environment, addressing needs for Army testing across the PNT spectrum. Continue development of Electronic Attack platforms, operating</p>			

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604256A / <i>Threat Simulator Development</i>	Project (Number/Name) 976 / <i>Army Threat Sim (ATS)</i>

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

on the full Radio Frequency spectrum, ranging from the HF to UHF bands. Design, develop and integrate threat radar emitter systems to address radar shortfalls (VHF; UHF; Ku and Ka Bands). Provide jamming capabilities up to 40 GHz in order to target satellite uplinks, exploitable systems for Cyber & Electromagnetic Activities (CEMA), and a threat environment required for Multi-Domain Operations (MDO). Additionally, begin the development of threat representative tactical communication simulators that will leverage intelligence community models creating a realistic Multi-Domain Operations environment. The Army Threat Systems Management Office (TSMO) will continue to support multiple Army test events including Joint Warfighting Assessment and anticipated excursion test events for numerous Systems Under Test/ Programs of Record currently identified through FY2025.

FY 2024 to FY 2025 Increase/Decrease Statement:

FY 2024 to FY 2025 funding increase provides Intelligence Community validated radar and communications digital models for use in a Live, Constructive and Virtual environment, as well as for rapid reprogramming of previously developed Software Defined Radio / Radar (SDR) open-air threat emitters that are required to be reactive to the threat. Additional funding will provide advanced jamming systems up towards 40 GHz (HF-Ka bands) in order to target satellite uplinks and expand the MDO environment to counter and test emerging system technologies that require an advanced frequency range. Additionally, increased funding will leverage COTS SDRs that ingest the intelligence community digital models to stimulate Systems Under Test (SUT) with threat realistic signatures.

FY 2023	FY 2024	FY 2025
4.251	3.593	5.505

Title: Threat Network and Mission Command

Description: Provides the Opposing Force (OPFOR) Commander and Staff with situational awareness of the Battlefield and Command, Control and Communications (C3) of threat systems across a dedicated communications network. Develops Army Threat Network and Mission Command capabilities to include quantum computing techniques, use of adaptive RF transmissions, self-healing/mesh network, capabilities aimed at masking threat communication systems (Very High Frequency (VHF), Ultra High Frequency (UHF), and High Frequency (HF), satellite and cellular, and next generation tactical radios.

FY 2024 Plans:

Continue system integration and improve the network fidelity, as well as, develop data fusion and artificial intelligence to provide improved decision aids to the Threat Force Commander. Continue to develop and integrate electronic support sensors and electronic attack payloads to provide a robust and threat representative capability to support testing of Army systems. Threat Position, Navigation, and Timing (PNT) Jammer will consist of modifications and upgrades to ensure relevance by implementing additional capabilities within the PNT spectrum. Threat Operations will continue to support multiple Army test events including Joint Warfighting Assessment (JWA) and anticipated excursion test events for numerous Systems Under Test/ Programs of Record (SUT / POR). Threat Operations will continue to support multiple Army test events as well as procure new control systems to support future Multi Domain Operations. Development will continue with new system integrations and improve the network fidelity, as well as, develop data fusion and artificial intelligence to provide improved decision aids to the Threat Force

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604256A / <i>Threat Simulator Development</i>	Project (Number/Name) 976 / <i>Army Threat Sim (ATS)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Commander. Continue to develop and integrate electronic support sensors and electronic attack payloads to provide a robust and threat representative capability to support testing of Army systems.</p> <p>FY 2025 Plans: Continue system integration and improve the Threat Battle Command Force (TBCF) network fidelity to support the Threat Force Commander and aid in decision making. Continue to develop and integrate electronic support sensors and electronic attack payloads to provide a robust and threat representative capability to support testing of Army systems. Continue integration of the virtual and constructive threats coming from the eXpeditionary Live-virtual-constructive Command Center (XLCC) to enable live and simulated systems to interact and cause battlefield effects. Continue to improve threat cellular capabilities by upgrading to 5G technology in order to further enhance testing capabilities.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The increase in funding will ensure the development cycle for the program continues on track with previous scheduling for the development and integration of electronic support sensors, and the improvement of threat cellular capabilities.</p>			
Accomplishments/Planned Programs Subtotals	17.764	38.492	71.298

	FY 2023	FY 2024
<p>Congressional Add: Cyber Security Operations Center</p> <p>FY 2023 Accomplishments: FY 2023 Congressional Add Funding will provide prototype capability to evaluate the feasibility of providing cyber security services and expertise to the Defense Industrial Base (DIB). Provides for the development of techniques for providing on-site and remote DIB assistance with assessment, training, response, and mitigation of cyber vulnerabilities and industrial supply chains. Funding also develops and will demonstrate the ability to provide effective and secure real-time cyber support to a series of cloud-enabled distributed, or deployed government and/or industry customer bases.</p>	90.500	-
<p>Congressional Add: Supply Chain Illumination to Counter Emerging Threats</p> <p>FY 2023 Accomplishments: FY 2023 Congressional Add Funding provides the Supply Chain Illumination (WODEN Team) exhaustive illumination assessments of Army/DoD Program / Platform Supply Chains and associated reports for a combination of components and/or vendors. The Supply Chain team can assist the requesting agency with conducting Critical Function Analysis (CFA) on requested components or assess components to determine criticality and enhance overall horizontal protection against shared threats.</p>	5.000	-
<p>Congressional Add: Threat Counter Artificial Intelligence</p>	12.500	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604256A / <i>Threat Simulator Development</i>	Project (Number/Name) 976 / <i>Army Threat Sim (ATS)</i>

	FY 2023	FY 2024
FY 2023 Accomplishments: FY 2023 Congressional Add Funding provides the capability for Threat Counter Artificial Intelligence (TCAI) to test emerging and evolving DOD/Army artificial intelligence (AI) and Machine Learning (ML) capabilities against operationally relevant and realistic threats.		
Congressional Add: UAS Center of Excellence	12.500	-
FY 2023 Accomplishments: FY 2023 Congressional Add Funding provides the development of a UAS/ Counter UAS Center of Excellence including critical urban operating areas at the Redstone Test Center and Huntsville International Airport for the purpose of assessing UAS and Counter UAS detection, identification and mitigation technologies supporting DOD and DOJ. Capability also creates the premiere center to test and validate America's Counter UAS technologies charged with protecting critical infrastructure such as airports, power plants, dams, neighborhoods, etc. from drone incursions.		
Congressional Adds Subtotals	120.500	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>					R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>							
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	53.434	11.873	15.788	-	15.788	15.218	15.350	15.519	15.675	Continuing	Continuing
238: <i>Aerial Targets</i>	-	47.258	8.420	12.453	-	12.453	11.466	11.558	11.685	11.802	Continuing	Continuing
459: <i>Ground Targets</i>	-	6.176	3.453	3.335	-	3.335	3.752	3.792	3.834	3.873	Continuing	Continuing

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

This Program Element funds aerial and ground target hardware and software development, maintenance, and upgrades. The overall objective is to ensure validation of weapon system accuracy and reliability by developing aerial and ground targets essential for test and evaluation (T&E). These targets are economical and expendable, remotely controlled or stationary, and often destroyed in use. The Army is the Tri-Service lead under the Secretariat Reliance panel for providing rotary wing, mobile ground, towed, and designated targets for T&E. The Army executes development of some service-peculiar target requirements in support of quality assurance, lot acceptance, and training and continues development of service-peculiar and on-going target materiel upgrades to maintain continuity with current weapons technology and trends in modern and evolving Army weapons.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	64.132	11.873	15.756	-	15.756
Current President's Budget	53.434	11.873	15.788	-	15.788
Total Adjustments	-10.698	0.000	0.032	-	0.032
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-10.000	-			
• SBIR/STTR Transfer	-0.698	-			
• Adjustments to Budget Years	-	-	0.032	-	0.032

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

Project: 238: *Aerial Targets*

Congressional Add: *Replacement of Engines for Aerial Targets*

Congressional Add: *UAS Swarm Threat Representation, Detection and Mitigation*

	FY 2023	FY 2024
	10.000	-
	25.000	-

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>
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Congressional Add Details (\$ in Millions, and Includes General Reductions)

	FY 2023	FY 2024
Congressional Add Subtotals for Project: 238	35.000	-
Congressional Add Totals for all Projects	35.000	-

Change Summary Explanation

There is a minor increase due to economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 238 / <i>Aerial Targets</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>238: Aerial Targets</i>	-	47.258	8.420	12.453	-	12.453	11.466	11.558	11.685	11.802	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports Army readiness and multi-domain operations through development, acquisition, operation and modernization of aerial targets. Multi-spectral Aerial Targets include realistic surrogates, actual high performance threat aircraft, and virtual target computer models. Current and emerging weapons systems require test, evaluation, and training using threat representative aerial targets to assess weapons systems effectiveness in the operational environment. This project encompasses a portfolio of full-scale, miniature, and subscale fixed wing/rotary wing targets, virtual targets, ancillary devices, and associated control systems. For accurate threat portrayal that properly stresses weapons systems during test and evaluation, aerial targets must exhibit the flight characteristics, threat signatures, and other performance factors to represent or emulate relevant and validated threats. This Project funds: the long-range planning necessary to determine future target needs and development of coordinated requirements; the management of target research, development, test and evaluation, production, and modernization; execution of the validation process to ensure that aerial targets accurately represent the threat; as well as storage and repair parts. The Army is the Test Enterprise Reliance lead for Rotary Wing Targets and Towed Target development.

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

	FY 2023	FY 2024	FY 2025
Title: Towed Targets/Ancillary devices.	0.475	0.410	0.420
Description: Engineering & Manufacturing Development (EMD) phase activities for Towed Targets/Ancillary devices.			
FY 2024 Plans: Continue EMD for Towed Targets and Ancillary devices, to include development, enhancement, maintenance, and sustainment for towed targets and ancillary devices as needed. Continue development and testing of Low Cost Towed target systems specifically the X-Tow, Glide Tow and Sphere Tow Targets. These targets emulate current threats or provide calibrated radar cross section sources at a very low cost to the Army Directed Energy Program Office, Rapid Capabilities and Critical Technologies Office (RCCTO), Center for Countermeasures/Office of the Secretary of Defense (CCM/OSD), the USAF Three Dimensional Long Range Radar and the Navy Enterprise Air Surveillance Radar. Design of the X-Tow target will be reviewed and optimized to reduce production cost. Design and development of a 6 inch Sphere Tow target will be initiated to meet future test requirements. The Global Positioning System (GPS) receiver and Data Logger Unit used in the Sphere Tow, X-Tow and Cruise Missile Tow targets will be updated to the latest technology to provide test personnel with precise location of the targets during testing. Investigate and test other cost-saving towed systems specifically modifications to the Cruise Missile Tow Target for High Energy Laser system tests.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 238 / <i>Aerial Targets</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Continue EMD for Towed Targets and Ancillary devices, to include development, enhancement, maintenance, and sustainment for towed targets and ancillary devices as needed. Continue development and testing of Low Cost Towed target systems specifically the High Energy Laser (HEL) Tow, and Sphere Tow Targets. These targets emulate current threats or provide calibrated radar cross section sources at a very low cost to the Army Directed Energy Program Office, Rapid Capabilities and Critical Technologies Office, Army Aerostat Program Office, Center for Countermeasures/ Office of the Secretary of Defense (CCM/OSD), USAF Three Dimensional Long Range Radar and the Navy Enterprise Air Surveillance Radar. A prototype of the HEL-Tow target will be fabricated for flight testing. The Global Positioning System receiver and Data Logger Unit used in the Sphere Tow, X-Tow and Cruise Missile Tow targets will be updated to the latest technology to provide test personnel with precise location of the targets during testing.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 funding increase represents minor increase due to economic assumptions.</p>				
<p>Title: Aerial Virtual Targets.</p> <p>Description: Supports the research and development of Aerial Virtual Targets. Virtual Targets are employed by multiple Department of Defense agencies and weapon systems to facilitate simulations for Developmental and Operational Test planning, rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions.</p> <p>FY 2024 Plans: Will continue modeling, simulation, and development of aerial threat targets for use throughout Army and DoD simulation environments for evolving Army and DoD simulation standards and evolving implementation techniques; focuses on simulation target models of airplanes, helicopters, missiles, unmanned aerial vehicles, and aerial targets in commonly used formats to support visualization, infrared analysis, and radar analysis simulations; will support verification and validation of models, will provide archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Life cycle maintenance of threat virtual targets will be addressed for creation, validation, and distribution of simulation target models and physics based software and simulation formats evolve. Aerial Virtual Targets will necessarily address continued adoption, utilization, and proliferation of unmanned aerial vehicles as well as rocket, artillery, and mortar (RAM) threats. Aerial Virtual Target models will continue to incorporate electronic attack (EA) and electronic warfare (EW) components. Simulation target models are employed to facilitate simulations for Development Testing (DT) and Operational Testing (OT) planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models will be used by multiple DoD agencies and multiple weapon systems such as, but not limited to Close Combat Weapon Systems, Unmanned Aerial Systems, and Lower Tier Program offices.</p> <p>FY 2025 Plans:</p>		0.717	0.515	0.625

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 238 / <i>Aerial Targets</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
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<p>Will continue modeling, simulation, and development of aerial threat targets for use throughout Army and DoD simulation environments for evolving Army and DoD simulation standards and evolving implementation techniques; focuses on simulation target models of airplanes, helicopters, missiles, unmanned aerial vehicles, and aerial targets in commonly used formats to support visualization, infrared analysis, and radar analysis simulations; will support verification and validation of models, will provide archiving and distribution of simulation target models to simulation developers throughout the Army and DoD T&E communities. Life cycle maintenance of threat virtual targets will be addressed for creation, validation, and distribution of simulation target models and physics based software and simulation formats evolve. Aerial Virtual Targets will necessarily address continued adoption, utilization, and proliferation of unmanned aerial vehicles as well as rocket, artillery, and mortar (RAM) threats. Aerial Virtual Target models will continue to incorporate electronic attack (EA) and electronic warfare (EW) components. Simulation target models are employed to facilitate simulations for Development Testing (DT) and Operational Testing (OT) planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models will be used by multiple DoD agencies and multiple weapon systems such as, but not limited to Close Combat Weapon Systems, Strategic and Operational Rockets and Missiles, Tactical Aviation and Ground Munition, and Lower Tier Program offices.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 increase accounts for the expedition of virtual models' usage into training centers and live emitters.</p>			
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<p>Title: Army Ground Aerial Target Control System (AGATCS).</p> <p>Description: EMD phase activities for the Army Ground Aerial Target Control System in support of a modern current technology target control system for control of subscale and full scale aerial, surface (ground/seaborne), Small Unmanned Aerial System (SUAS) and rotary wing targets.</p> <p>FY 2024 Plans: AGATCS engineering and manufacturing to provide new capabilities and new features for remote control of aerial (fixed wing, rotary wing, and simulated unmanned aerial systems (SUAS)), ground (heavy, medium, and light vehicles), and seaborne targets with a single control system in support of live fire testing necessary for lethality evaluation and sensor package testing for evaluation of suitability and effectiveness. Funds maintenance of compliance with DODI 8510.01 mandate / DOD Risk Management Framework on all target control systems to ensure a secure operating posture. Funds development of surface target testing requirements to include convoy, formation, collision avoidance, and swarming capabilities for U.S. Army test ranges. Provides Test Centers and the T&E community with a versatile seaborne and rotary wing resource for use in conducting tests to include live fire testing, observation, signal repeater and cargo transportation.</p> <p>FY 2025 Plans:</p>	3.397	3.233	3.037
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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 238 / <i>Aerial Targets</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Army Ground Aerial Target Control System (AGATCS) engineering and manufacturing to provide new capabilities and new features for remote control of aerial (fixed wing, rotary wing, and simulated unmanned aerial systems), ground (heavy, medium, and light vehicles), and seaborne targets with a single control system in support of live fire testing necessary for lethality evaluation and sensor package testing for evaluation of suitability and effectiveness. Funds maintenance of compliance with DODI 8510.01 mandate / DoD Risk Management Framework on all target control systems to ensure a secure operating posture. Funds development of surface target testing requirements to include convoy, formation, collision avoidance, and swarming capabilities moving toward coordinated time of arrival for multi domain operations at U.S. Army test ranges. Provides Test Centers and the T&E community with a versatile seaborne and rotary wing resource for use in conducting tests to include live fire testing, observation, signal repeater and cargo transportation.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY2025 decrease to maintain planned lifecycle of this effort.</p>				
<p>Title: Unmanned Aerial System - Target (UAS-T).</p> <p>Description: Technical updates and life cycle management activities for the UAS-T and COTS UAS platforms to provide Threat representative support for test and experimentation missions. Includes technical support for development, demonstration, integration of payloads, and technical oversight of the targets' acquisition and ground support equipment.</p> <p>FY 2024 Plans: Technical and life cycle management for the Unmanned Aerial System-Threat (UAS-T) to operate and maintain a generic, tactical class unmanned aircraft system target to support a variety of test requirements by providing a generic threat representative aerial target to support test and experimentation missions. Projects to be supported include the Space and Missile Defense Command, Patriot, and the Joint Integration Air and Missile Defense Organization live fire testing. This activity will continue to require technical support for investigation, demonstration, and integration of a more economical target, to include technical oversight of the targets' acquisition and ground support equipment.</p> <p>FY 2025 Plans: Technical and life cycle management of Unmanned Aerial System-Target (UAS-T) platforms to operate and maintain a fleet of both tactical class UAS-Ts and commercial-off-the-shelf (COTS) UAS. These efforts support a variety of test requirements by providing threat representative UAS aerial targets for test and experimentation missions. Provides UAS-T and COTS UAS platforms to White Sands Missile Range, Yuma, and Threat Systems Management Office Operations teams to support various Army test events. This activity will continue to require technical support for development, demonstration, and integration of payloads, to include technical oversight of the targets' acquisition and ground support equipment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		3.831	1.474	5.253

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 238 / <i>Aerial Targets</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
FY 2024 to FY 2025 increase in funding will provide additional platforms for Army test events to align with Army priorities and support current Army modernization efforts with UAS-T/UAS-C platforms.				
<p>Title: High Speed Aerial Target (HSAT).</p> <p>Description: Funds the EMD phase for the replacement of the aging MQM-107 with the new BQM-167A to provide a realistic aerial target capable of simulating the performance of enemy aircraft; technical and life cycle management activities for equipment, to include engineering change proposals, technology obsolescence, and safety and system data documentation for the High Speed Aerial Target. Program requires technical support for investigation, demonstration, and integration of a more economical target. Technical oversight of the replacement targets' acquisition along with Ground Support Equipment (GSE) and other activities related to getting it operational is essential; provides a realistic aerial target capable of simulating the performance of enemy aircraft to aid in the research, development, test, and evaluation of weapons systems and aid in training operational units employing production missile systems.</p> <p>FY 2024 Plans: The U.S Army Threat Systems Management Office provides Aerial Targets to customers for threat realism required by law in Title 10 U.S.C., Section 2366 (Live Fire Test & Evaluation) for the testing of ACAT I/II major munitions, missile programs, or product improvements of these programs. This line is the technical sustainment of all HSATs. This funding covers the engineering, integration, safety, cyber security, technology obsolescence, safety and system data documentation, Air Worthiness Release development, and flight waivers for the entire enterprise, as well as non-recurring engineering for software/firmware updates, and minor product upgrades. This includes the MQM-107, MQM-178, BQM-34, BQM-167, and MQM-185. These HSATs will continue to support Test & Evaluation programs such as Patriot, Integrated Air and Missile Defense, Sentinel Radar, Cruise Missile Defense System, and classified programs for Army and Tri-Service customers.</p> <p>FY 2025 Plans: The U.S Army Threat Systems Management Office provides Aerial Targets to customers for threat realism required by law in Title 10 U.S.C., Section 2366 (Live Fire Test & Evaluation) for the testing of ACAT I/II major munitions, missile programs, or product improvements of these programs. This line is the technical sustainment of all High Speed Aerial Targets (HSATs). This funding covers the engineering, integration, safety, cyber security, technology obsolescence, safety and system data documentation, Air Worthiness Release development, and flight waivers for the entire enterprise, as well as, non-recurring engineering for software/firmware updates, and minor product upgrades. This includes the MQM-107, MQM-178, BQM-34, and BQM-167. These HSATs will continue to support Test & Evaluation for Short and Intermediate Effectors for Layered Defense Project Office, programs such as Indirect Fire Protection Capability, and classified programs for Army and Tri-Service customers.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		3.838	2.788	3.118

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 238 / <i>Aerial Targets</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 to FY 2025 increase in funding aligns with Army priorities to support the High Speed Aerial Target fleet with necessary target modifications, upgrades, and technical support required to meet Army modernization efforts.			
Accomplishments/Planned Programs Subtotals	12.258	8.420	12.453

	FY 2023	FY 2024
Congressional Add: Replacement of Engines for Aerial Targets	10.000	-
FY 2023 Accomplishments: Congressional Add FY 2023 provides the development a new US manufactured engine for the MQM-178 Aerial Target Platform. Provides Army Multi-Domain Operations (MDO) programs with an ideal cruise missile surrogate.		
Congressional Add: UAS Swarm Threat Representation, Detection and Mitigation	25.000	-
FY 2023 Accomplishments: Congressional Add FY 2023 provides the development of US produced UAS platforms, ground control system, mission planner/simulation, payloads, and system mobility for Army CTC's and DT & OT weapons testing in support of Army readiness and modernization. Also includes the development of 5G NSA cellular network simulator, field deployable 5G network system, and 5G NSA/SA CORE network capable of interoperability with foreign and future domestic architectures.		
Congressional Adds Subtotals	35.000	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>				Project (Number/Name) 459 / <i>Ground Targets</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
459: <i>Ground Targets</i>	-	6.176	3.453	3.335	-	3.335	3.752	3.792	3.834	3.873	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds Army efforts to support test and evaluation (T&E) of advanced weapon systems and supports Army Modernization, Multi-Domain Operations, and Tri-Service readiness by developing ground target surrogates, producing threat representative emitters, acquiring foreign equipment, and developing virtual target computer models of ground vehicle targets. These products are required to adequately stress weapon systems undergoing T&E. The United States Army is the Tri-Service lead for providing mobile ground targets for T&E. This tasking includes long-range planning to determine future target needs and development of coordinated requirement documents; the centralized management of the ground target research, development, test and evaluation processes; execution of the validation process; acquisition of foreign equipment; and continuing maintenance, storage, and development/enhancement/update via engineering services of developed and acquired targets to ensure availability for T&E customers. This Project also manages use of current assets and operates a centralized spare parts program.

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

	FY 2023	FY 2024	FY 2025
Title: Mobile Ground Target Operations (MGTO)	2.017	1.719	1.535
<p>Description: MGTO provides oversight of five Primary Operating Centers to include operation, storage, maintenance, repair, safety and configuration management. The objective of the MGTO effort is to support the testing community as fully, efficiently and effectively as possible. The MGTO centrally manages a fleet of foreign threat ground vehicles while maintaining the foreign integrity of the assets.</p> <p>FY 2024 Plans: Will maintain a fleet of reusable ground targets emulating relevant, current, and emerging threats which provides cost effective solutions for T&E. The MGTO will centrally manage a fleet of foreign threat ground vehicles while maintaining the foreign integrity of the assets. The MGTO will provide support and oversight for actual threat foreign ground vehicles and mobile ground target surrogate vehicles for use as threat targets by the T&E community for destructive and non-destructive scenarios. Efforts will support users such as, but not limited to Army Futures Command Cross Functional Teams (CFTs) Apache 64E, Joint Air to Ground Missile, Javelin, Extended Range Guided Multiple Launch Rocket System, Army Tactical Missile System, Cruise Missile Defense System, Precision Fires, Counter Rocket Artillery and Missile, Close Combat Weapon System, and other research, prototyping, and operational users.</p> <p>FY 2025 Plans: Will maintain a fleet of reusable ground targets emulating relevant, current, and emerging threats which provides cost effective solutions for T&E. The MGTO will centrally manage a fleet of foreign threat ground vehicles while maintaining the foreign integrity of the assets. The MGTO will provide support and oversight for actual threat foreign ground vehicles and mobile ground target</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 459 / <i>Ground Targets</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>surrogate vehicles for use as threat targets by the T&E community for destructive and non-destructive scenarios. Efforts will support users such as, but not limited to Army Futures Command Cross Functional Teams Apache 64E, Joint Air to Ground Missile, Javelin, Extended Range Guided Multiple Launch Rocket System, Army Tactical Missile System, Cruise Missile Defense System, Precision Fires, Counter Rocket Artillery and Missile, Close Combat Weapon System, and other research, prototyping, and operational users.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY2025 decrease to maintain planned lifecycle of this effort.</p>				
<p>Title: Mobile Ground Targets Hardware (MGTH)</p> <p>Description: MGTH provides a mix of actual threat assets and surrogate targets to support Army T&E events.</p> <p>FY 2024 Plans: Will provide cost effective and highly threat representative surface targets (consisting of actual foreign equipment as well as surrogates) for Test and Evaluation of multiple weapon systems. Will continue to provide surface targets to meet the functionality and signature fidelity requirements of the objective force. Will acquire actual foreign equipment, to include insurgent vehicles, to meet known weapon system target shortfalls. Will continue to initiate analysis and design efforts to address specific capability shortfalls and the ability to develop threat representative surrogates.</p> <p>FY 2025 Plans: Will provide cost effective and highly threat representative surface targets (consisting of actual foreign equipment as well as surrogates) for test and evaluation of multiple weapon systems. Will continue to provide surface targets to meet the functionality and signature fidelity requirements of the objective force. Will acquire actual foreign equipment, to include insurgent vehicles, to meet known weapon system target shortfalls. Will continue to initiate analysis and design efforts to address specific capability shortfalls and the ability to develop threat representative surrogates.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY2025 decrease to maintain planned lifecycle of this effort.</p>		0.515	0.662	0.567
<p>Title: Ground Virtual Targets</p> <p>Description: Government System T&E to support the research and development of Ground Virtual Targets. Virtual Targets are employed by multiple Department of Defense agencies and weapon systems to facilitate simulations for Developmental and Operational Test planning, rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions.</p> <p>FY 2024 Plans:</p>		0.708	0.722	0.562

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 459 / <i>Ground Targets</i>

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

Will continue engineering and manufacturing for Ground Virtual Targets for evolving Army and DoD simulation standards and evolving implementation techniques. Will focus specifically on the modeling of threat Integrated Air Defense Assets (IADS) following a new format from National Ground Intelligence Center (NGIC). These new Overarching Dynamic Electronic-warfare System Standard Architecture (ODESSA) models will define the radar parameters in a standard format that will permit near real-time threat emitter updates by ingesting these pulse descriptor words (PDW) directly into the Software Defined Radio / Radar (SDR) emitter currently being developed. Using Intelligence Community (IC) validated models will shorten the validation of the threat emitters by not less than 75% of the current time it takes a threat emitter to complete the validation phase and will provide archiving and distribution of simulation target models to simulation developers throughout the Army and DoD Test & Evaluation communities. Life cycle maintenance of threat virtual targets will be addressed for creation, validation, and distribution of simulation target models and physics-based software as simulation formats evolve. Ground Virtual Targets will address continued application of cross domain, air defense, and denied access threats. Ground Virtual Target models will continue to incorporate electronic attack (EA) and electronic warfare (EW) components for air defense systems and simulations. Simulation target models are employed to facilitate simulations for developmental test (DT) and operational test (OT) planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models will be used by multiple DoD agencies and multiple weapon systems such as, but not limited to Close Combat Weapon Systems, Strategic and Operational Rockets and Missiles, and Tactical Aviation and Ground Munition offices.

FY 2025 Plans:

Will continue engineering and manufacturing for Ground Virtual Targets for evolving Army and Department of Defense (DoD) simulation standards and evolving implementation techniques. Will focus specifically on the modeling of threat Integrated Air Defense Assets following a new format from National Ground Intelligence Center. These new Overarching Dynamic Electronic-warfare System Standard Architecture models will define the radar parameters in a standard format that will permit near real-time threat emitter updates by ingesting these pulse descriptor words directly into the Software Defined Radio / Radar emitter currently being developed. Using Intelligence Community validated models will shorten the validation of the threat emitters by not less than 75% of the current time it takes a threat emitter to complete the validation phase and will provide archiving and distribution of simulation target models to simulation developers throughout the Army and DoD Test & Evaluation communities. Life cycle maintenance of threat virtual targets will be addressed for creation, validation, and distribution of simulation target models and physics-based software as simulation formats evolve. Ground Virtual Targets will necessarily address continued application of cross domain, air defense, and denied access threats. Ground Virtual Target models will continue to incorporate electronic attack and electronic warfare components for air defense systems and simulations. Simulation target models are employed to facilitate simulations for developmental test and operational test planning, test rehearsal, post-test analysis, hardware-in-the-loop testing, and execution of test events that are too costly or difficult to be conducted under actual field conditions. These models will be used

FY 2023	FY 2024	FY 2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 459 / <i>Ground Targets</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>by multiple DoD agencies and multiple weapon systems such as, but not limited to Close Combat Weapon Systems, Strategic and Operational Rockets and Missiles, and Tactical Aviation and Ground Munition offices.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY2025 decrease to maintain planned lifecycle of this effort.</p> <p>Title: Low Cost Ground Targets</p> <p>Description: This proof-of-concept utilizes lower-cost Software Defined Radio (SDR) technology to demonstrate the feasibility of replicating a scalable, diverse, high-density Radio Frequency (RF) environment capable of supporting MDO, Test and Training within cost constraints. This proposed solution develops low-cost/low-risk solutions to emulate adversary high-dense RF environments using components developed for SDRs, coupled with available antennas and Commercial-Off-the-Shelf (COTS) devices and products to demonstrate operations.</p> <p>SDR radar systems have been employed mainly in military operations, like target detection, target recognition, surveillance, and other specific applications, such as meteorology and air-traffic control. However, in recent years, large-scale commercial applications are driving standard radar system operations at significant cost reductions with increased adaptability. According to this new operating context, Software Defined Radar (SDRadar) represents new challenges in radar technology given the possibility of performing basic operations (i.e. mixing, filtering, modulation, and demodulation) by simply employing software modules in order to eliminate much of the radar specific processing hardware. The main goal of a software defined approach is related not only to a clear cost reduction, but also to a significant increase of the versatility of the system, since signal generation and signal processing parameters may be easily adapted to the task under consideration.</p> <p>Integration into test and training range and Home Station networks, such as the Threat Battle Command Force (TBCF), provides significant Integrated Air Defense Systems (IADS) capability utilizing multiple units. This program supports US Army acquisition ability to adequately stress weapon systems undergoing both Developmental and Operational Tests, as well as Live, Virtual, and Constructive (LVC) training. The low-cost systems emulate known threat radars across multiple radar bands and to develop as many emitters as possible to create a dense, RF environment.</p> <p>FY 2024 Plans: Continue to build in sufficient quantities to provide threat emitters to support Developmental and Operational Tests across multiple Army Test and Training programs, as well as the Cross Functional Teams. In addition, units will be deployed at Combined Training Centers (CTC) as well as to various Army installations in support of Home Station Training in a Live, Virtual and Constructive (LVC) environment. Develop interfaces required to integrate units into the Threat Battle Command Force (TBCF)</p>	2.936	0.350	0.671

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604258A / <i>Target Systems Development</i>	Project (Number/Name) 459 / <i>Ground Targets</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
operational system. Develop Time Space Position Information (TSPI) interface requirements that will permit the tracking of targets real-time to support developmental and operational tests as well as training exercises. <i>FY 2025 Plans:</i> Provide threat emitters to support Developmental and Operational Tests across multiple Army Test and Training programs. In addition, units will be deployed at Combined Training Centers as well as to various Army installations in support of Home Station Training in a Live, Virtual and Constructive environment. Develop interfaces required to integrate units into the Threat Battle Command Force operational system. Develop Time Space Position Information interface requirements that will permit the tracking of targets real-time to support developmental and operational tests as well as training exercises. <i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Army increased funding in FY 2025 to ensure adequate funds were being applied to Intelligence Community Modeling efforts. The additional funds will assist in pulling the interface development to live emitters to the left.			
Accomplishments/Planned Programs Subtotals	6.176	3.453	3.335

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	144.173	76.167	78.613	-	78.613	92.699	96.053	97.233	98.204	Continuing	Continuing
983: Reagan Test Site (RTS) T&E Investments	-	6.374	8.401	4.231	-	4.231	8.431	8.520	8.613	8.699	Continuing	Continuing
984: Major Developmental Testing Instrumentation	-	48.478	33.532	26.857	-	26.857	30.680	33.426	33.792	34.129	Continuing	Continuing
986: Major Operational Test Instrumentation	-	38.854	6.730	7.899	-	7.899	4.299	4.291	4.469	4.514	Continuing	Continuing
EY9: Range Radar Replacement Program (RRRP)	-	48.238	26.355	38.475	-	38.475	48.136	48.650	49.180	49.671	Continuing	Continuing
FF1: Cyber Blue Team	-	2.229	1.149	1.151	-	1.151	1.153	1.166	1.179	1.191	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) funds the development and acquisition of major developmental test instrumentation for the United States (U.S.) Army Test and Evaluation Command's (ATEC) test activities: White Sands Test Center (WSTC), New Mexico; Yuma Test Center (YTC), Arizona; Aberdeen Test Center (ATC), Maryland; Electronic Proving Ground (EPG), Arizona; Redstone Test Center (RTC), Alabama; and for the Reagan Test Site (RTS) at the United States Army Kwajalein Atoll (USAKA), which is managed by the Space and Missile Defense Command. This PE also funds development and acquisition of Operational Test Command's (OTC) major field instrumentation, management of the Cyber Acquisition Blue Teams (CABT) certification standards. Requirements for instrumentation and cyber certifications are identified through a long range survey of project managers, Research Development and Engineering Centers (RDECs), and Battle Laboratories developing future weapon systems and the test programs that support these systems. Army testing facilities are also surveyed to determine major testing capability shortfalls.

This funding line supports testing of Army Modernization Priority Programs.

FY25 funding in the amount of \$3.269 million is in support of the Pacific Defense Initiative.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0604759A / <i>Major T&E Investment</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	142.031	76.167	78.455	-	78.455
Current President's Budget	144.173	76.167	78.613	-	78.613
Total Adjustments	2.142	0.000	0.158	-	0.158
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	6.069	-			
• SBIR/STTR Transfer	-3.927	-			
• Adjustments to Budget Years	-	-	0.158	-	0.158

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

Project: 986: *Major Operational Test Instrumentation*

Congressional Add: *Congressional Add: Advancing operational Test Infrastructure*

Congressional Add: *Congressional Add: Expanding the Operational Test Command*

Congressional Add Subtotals for Project: 986

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	30.500	-
	3.900	-
Congressional Add Subtotals for Project: 986	34.400	-
Congressional Add Totals for all Projects	34.400	-

Change Summary Explanation

Increased funding due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment				Project (Number/Name) 983 / Reagan Test Site (RTS) T&E Investments			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
983: Reagan Test Site (RTS) T&E Investments	-	6.374	8.401	4.231	-	4.231	8.431	8.520	8.613	8.699	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds improvement and modernization (I&M) for the Ronald Reagan Ballistic Missile Defense Test Site (RTS) instrumentation systems. The Reagan Test Site with its remote location and one of kind instrumentation systems provides a strategic test environment that cannot be replicated. In order to continue its critical mission of testing missile systems that are of paramount importance to the defense of the nation, the RTS instrumentation systems must be continuously updated and upgraded to support the emerging technologies being developed by the Department of Defense (DOD) such as hypersonics and other advanced weapons systems. Without modernization, these instrumentation systems face obsolescence or degraded capability and the inability to provide the critical data needed for continued materiel development. Without instrumentation on par with the technologies being utilized in emerging systems, the materiel developer will be unable to complete their test programs or pass programmatic milestones toward deployment. These funds provide modernization of the radar, telemetry, optics, range safety, communications, command/control and other equipment essential to meet test and evaluation requirements of the Services and DoD agencies. The RTS instrumentation is required to support data collection for test & evaluation assessments and operational decisions that have strategic implications for the Army, Navy, Air Force, United States Strategic Command (STRATCOM), Missile Defense Agency (MDA), Defense Advanced Research Projects Agency (DARPA), National Aeronautics and Space Administration (NASA), and other customers. RTS, located in the Republic of the Marshall Islands, is a remote, secure activity of the Major Range and Test Facility Base (MRTFB). Funding will enable RTS to meet customer objectives and sustain the required instrumentation suite.

FY25 funding in the amount of \$3.269 million is in support of the Pacific Defense Initiative.

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

	FY 2023	FY 2024	FY 2025
Title: Radar Reliability Improvement Program (RRI).	0.500	0.500	0.500
Description: The Radar Improvement and Sustainment (RIS) activity is an Improvements and Modernizations (I&M) Umbrella Program to push technology into radar systems. RIS is a group of complimentary I&M Projects that mitigate annual Operations and Maintenance (O&M) risks. Projects initiated address the following needs: Enhancing the Reliability of the Sensor; Technology Refresh; Obsolescence; Commonality of Design across Sensors; Enhanced Monitoring; Fault Detection - Fault Isolation (FD/FI); Enable Remote Operation and Monitoring; and Enhanced Capabilities.			
FY 2024 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 983 / Reagan Test Site (RTS) T&E Investments		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>RRI Program will continue as an I&M Umbrella Program to push technology into the radar systems. RRI projects will address: Enhancing the Reliability of the Sensor; Technology Refresh; Obsolescence; Commonality of Design across Sensors; Enhanced Monitoring FD/FI; Enable Remote Operation and Monitoring; and Enhanced Capabilities</p> <p>FY 2025 Plans: RRI Program will continue as an I&M Umbrella Program to push technology into the radar systems. RRI projects will address: Enhancing the Reliability of the Sensor; Technology Refresh; Obsolescence; Commonality of Design across Sensors; Enhanced Monitoring FD/FI; Enable Remote Operation and Monitoring; and Enhanced Capabilities.</p>				
<p>Title: Telemetry (TM) Modernization Study.</p> <p>Description: This activity will develop the technology required to modernize the telemetry systems using an innovative software defined radio approach designed to vastly improve the ability to adapt to future telemetry changes and requirements quickly with lower cost. In addition, this approach will enable centralized command and control of the telemetry equipment increasing efficiency in mission preparation and execution. The telemetry back-end processing chain is currently comprised of discrete frequency-specific hardware components that are replicated for each telemetry channel required for a test event. This activity will develop a scalable frequency-agnostic, software-based solution that runs on commodity computer servers. More complex missions (e.g., Over-the-air (OTA) operational testing of the Ballistic Missile Defense Systems (BMDS)) will continue to require more telemetry channels, but this activity will avoid much of that future cost. This effort will provide enough hardware to increase capacity of the telemetry system.</p>		1.000	-	-
<p>Title: Legacy Servo Upgrade Program.</p> <p>Description: This activity will design, upgrade, and replace the radar and optics servo systems. The custom-hardware based legacy systems will be replaced with commercially supportable commercial off the shelf (COTS) hardware. Where possible, common components will be used across all range sensors to minimize ongoing maintenance costs.</p> <p>FY 2024 Plans: Installation of new servos at a second radar (ALCOR).</p> <p>FY 2025 Plans: Continuation of installation of new servos at a second radar (ALCOR).</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle of this effort.</p>		2.352	2.124	2.023
<p>Title: RTS Range Enhancements for Hypersonic Vehicle Testing</p>		0.150	0.400	0.708

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 983 / Reagan Test Site (RTS) T&E Investments

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: The Range Enhancements for Hypersonic Vehicle Testing program will develop and deploy advanced technologies and a number of infrastructure upgrades specific to hypersonic vehicle testing. These technologies and infrastructure improvements include advanced non-ballistic tracking enhancements, improved data collection, additional waveform support, sensor surrogate capabilities and integration of adjunct sensors to support situational awareness and future tracking enhancements.</p> <p>FY 2024 Plans: Continue maturing and deploying enhanced tracking algorithms to the RTS sensor suite and planning & support for experimentation & testing in space.</p> <p>FY 2025 Plans: Continuation to mature and deploy enhanced tracking algorithms to the RTS sensor suite and planning & support for experimentation & testing in space.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle of this effort</p>			
<p>Title: Digital Focal Plane Array (DFPA) Technology Insertion</p> <p>Description: DFPA Technology Insertion program designs, builds, and integrates DFPA-based camera systems and other leading-edge imaging technologies into existing Super Recording Automatic Digital Optical Tracker (RADOT) mounts at RTS. The cameras and telescopes will provide coverage in multiple imaging bands including Middle Wave Infra-Red (MWIR) and Long Wave Infra-Red (LWIR).</p> <p>FY 2024 Plans: Continue installation and test of IR cameras; work RMF accreditation package for cyber security; IV&V; test system.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Mission complete, no funding required in FY25 for this effort.</p>	0.330	1.000	-
<p>Title: Transmitter/Receiver & Optics Improvements</p> <p>Description: ROSA requirement funded with Centralized Test Evaluation Improvement Program (CTEIP) funds under the KREMS Technology Refresh Program. Army dollars realigned to support other RTS' requirements. Various small scale efforts to update & upgrade optical systems, as well as radar transmitter and receiver subsystems at the KREMS radars.</p> <p>FY 2024 Plans:</p>	1.042	1.337	0.500

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 983 / Reagan Test Site (RTS) T&E Investments		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Continue to maintain and increase the operability of RTS capabilities across all KREMS radars. FY 2025 Plans: Continue to maintain operability of RTS capabilities. FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle of this effort and mission completion nearing.				
Title: TRADEX L-Band High Voltage Power Supply Upgrade Description: TRADEX L-Band High Voltage Power Supply Upgrade will improve resilience of L-band by providing a backup power supply and a test stand where tubes can be tested without impacting the operational system.		1.000	-	-
Title: MPS-36 Infrastructure Refresh Description: MPS-36 radars are quite old and decaying due to corrosion because of proximity to Pacific Ocean as well as normal wear and tear. This project is to replace outdoor infrastructure related to the MPS-36 radars: dish, pedestal, wiring, connectors, LNA, and other components as required. Upgrade to newer materials and technologies to improve performance and longevity. FY 2024 Plans: Replace corroded and decayed components to restore functionality and maintainability. Begin work to upgrade/replace RF components and computer hardware that controls the RF sub-systems. Multi-year infrastructure repair & refresh with inspections & study of existing issues, and begin to replace most critical items. FY 2025 Plans: Continue to replace corroded and decayed components to restore functionality and maintainability. Continuation of work to upgrade/replace RF components and computer hardware that controls the RF sub-systems. Multi-year infrastructure repair & refresh with inspections & study of existing issues, and to replace most critical items. FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle of this effort.		-	1.000	0.500
Title: ALTAIR High Voltage Power Supply Upgrade Description: Leverage work done on TRADEX High Voltage Power Supply (HVPS) to begin looking at a replacement HVPS for the ALTAIR radar. FY 2024 Plans:		-	2.040	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 983 / Reagan Test Site (RTS) T&E Investments

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Begin studies and specifications for new HVPS; perform market research and begin engineering preparations at the radar site for a new power supply. FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle of this effort.			
Accomplishments/Planned Programs Subtotals	6.374	8.401	4.231

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment				Project (Number/Name) 984 / Major Developmental Testing Instrumentation			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
984: Major Developmental Testing Instrumentation	-	48.478	33.532	26.857	-	26.857	30.680	33.426	33.792	34.129	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project develops and acquires major test instrumentation to perform developmental testing of weapon systems at United States Army Test and Evaluation Command's (ATEC) activities which include: Yuma Test Center (YTC), AZ; Aberdeen Test Center (ATC), MD; Electronic Proving Ground (EPG), AZ; White Sands Test Center (WSTC), NM; Redstone Test Center (RTC), AL; Cold Regions Test Center (CRTC), AK.

Projects are designated as a major test program based on their visibility, assessed relative technical risk (medium high), schedule risk, cost (greater than \$1.500 Million per year or \$7.500 Million for the total Project) and applicability to other mission areas or services. These Projects are technically demanding, state of the art, unique instrumentation assets or suites to meet technology shortfalls, and generally result from development programs managed by a professional project management team. All projects are designed to support both test and training requirements, as applicable.

Test Enterprise Network Modernization (TENM) will upgrade existing test data networks to ensure infrastructures are capable of providing reliable and secure transport of data and communications for ATEC test activities, as well as a revitalized fiber network. Due to limited commercial infrastructure, the cold regions provide a difficult climate for network connectivity. Therefore, TENM requires an edge capability along with a permanent fiber backbone on Army test ranges to ensure advanced weapon systems can operate flawlessly in extreme cold environments. Applied Environments Modernization (AEM) program will upgrade antiquated Environmental labs for climatic and dynamic testing with new cascade refrigeration units, climatic chambers, vibration test systems, x-ray cameras, a real-time radiography system and full spectrum solar lights. Telemetry Systems Modernization (TSM) will modernize outdated telemetry systems with new equipment designed to enhance the technical and spectral capabilities currently available. This new telemetry equipment will also provide for a remote controlled operational environment. In support of the National Defense Strategy, each of these programs supports the following Army Cross Functional Teams: Long Range Precision Fires, Next Generation Combat Vehicle and Future Vertical Lift.

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

	FY 2023	FY 2024	FY 2025
Title: EMD phase contract activity of the Test Network Modernization.	16.665	16.641	-
Description: Engineering, Manufacturing, and Development (EMD) phase contract activity for the Test Network Modernization. This effort will provide a modern test infrastructure capable of reliable, secure transport of test data and test communications for Aberdeen Test Center (ATC), Electronic Proving Ground (EPG), Redstone Test Center (RTC), White Sands Test Center (WSTC), Yuma Proving Ground (YPG), and Cold Regions Test Center (CRTC). This effort applies an enterprise solution to replace end-of-life equipment with the purpose of improving and providing the capability to support future network/data throughput demands			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 984 / Major Developmental Testing Instrumentation		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
consistent with operations and cybersecurity requirements. This effort supports Long Range Precision Fires, Next Generation Combat Vehicle and Future Vertical Lift Cross-Functional Teams.				
<p>FY 2024 Plans: The Test Network Modernization effort will continue in the engineering and manufacturing phase. FY 2024 funds in the amount of \$16.641 Million will continue the standardization of the network that allows modern monitoring, tracking, and troubleshooting of network issues and failure points. Test Centers with high customer demands, such as White Sands Test Center and Yuma Test Center will also be receiving fiber optic network Dense Wavelength Division Multiplexing (DWDM) upgrades to address end of life equipment issues.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change due combined program with ATEC Fiber Modernization into Test Enterprise Network Modernization.</p>				
<p>Title: EMD for the Applied Environments Modernization.</p> <p>Description: EMD phase contract activity for the Applied Environments Modernization program. This effort supports Long Range Precision Fires, Next Generation Combat Vehicle, Future Vertical Lift, Air and Missile Defense Cross-Functional Teams.</p> <p>FY 2024 Plans: Will continue EMD phase for Applied Environments Modernization program. In FY 2024 funds in the amount of \$4.828 Million will be used to continue with the purchase of equipment utilized for testing environmental effects at Yuma Test Center (YTC) and Redstone Test Center (RTC). Specific equipment to be upgraded in FY2024 includes: Full Spectrum Solar Light System (WSMR), Replacement Temperature Humidity Chambers (RTC), Temperature/Humidity Chamber Upgrades (ATC).</p> <p>FY 2025 Plans: Will continue EMD phase for Applied Environments Modernization program. In FY 2025 funds in the amount of \$4.331 Million will be used to continue with the purchase of equipment utilized for testing environmental effects at Yuma Test Center (YTC) and Redstone Test Center (RTC). Specific equipment to be upgraded in FY2025 includes: Large Sand and Dust Capability, Humidity/Temperature Chamber and Rain Test Chamber.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to less modernization requirements for environmental effects at the test centers from FY 2024 to FY 2025.</p>		12.740	4.828	4.331
<p>Title: EMD phase contract activity for Robotics/UAS Instrumentation Suite</p> <p>Description: EMD phase of Robotics/Unmanned Autonomous System (UAS) Instrumentation Suite for testing controlled and autonomous ground and aerial robotic systems. This effort supports Next Generation Combat Vehicle and Future Vertical Lift Cross-Functional Teams.</p>		6.977	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 984 / Major Developmental Testing Instrumentation		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Title: EMD phase contract activity for ATEC Fiber Modernization</p> <p>Description: ATEC Fiber Modernization will provide all ATEC Test Centers with a revitalized fiber network to complement the Test Network Modernization (TNM) program. This effort provides test centers with an improved fiber infrastructure to support greater data payloads and increased network reliability. This enterprise effort will replace fiber optic cable at the test centers to extend the lifecycle of the test networks. This effort supports Long Range Precision Fires, Next Generation Combat Vehicle, Network, Air and Missile Defense and Future Vertical Lift Cross-Functional Teams.</p> <p>FY 2024 Plans: Funds in the amount of \$5.105 Million will used to continue the acquisition and installation of hardware needed to revitalize and replace the fiber network at ATC, EPG, and YTC.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change due to combined program with Test Network Modernization into Test Enterprise Network Modernization.</p>		5.544	5.105	-
<p>Title: EMD phase contract activity for Telemetry Systems Modernization</p> <p>Description: Telemetry Systems Modernization will modernize current outdated telemetry systems located at: White Sands Test Center (WSTC), Yuma Test Center (YTC) , Aberdeen Test Center (ATC) and Redstone Test Center (RTC). Telemetry systems are a core capability for supporting testing under ATEC for airborne and both manned & unmanned ground vehicles. The modernization of these systems will provide enhanced technical and spectral capability while also providing for a remote controlled operational environment. This effort supports Long Range Precision Fires, Next Generation Combat Vehicle, Air and Missile Defense, and Future Vertical Lift Cross-Functional Teams.</p> <p>FY 2024 Plans: Funds in the amount of \$6.958 Million will continue with replacement of obsolete Telemetry system components at Redstone Test Center, Yuma Test Center and White Sands Test Center. This replacement will include Commercial Off The Shelf (COTS) fixed site and mobile telemetry equipment.</p> <p>FY 2025 Plans: Funds in the amount of \$6.924 Million will build upon and/or expand replacement of key infrastructure required for modernized system testing at Redstone Test Center, Yuma Test Center and White Sands Test Center. This replacement will include Commercial Off The Shelf (COTS) fixed site and mobile telemetry equipment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects the planned lifecycle of this effort.</p>		6.552	6.958	6.924
<p>Title: EMD phase contract activity for Test Enterprise Network Modernization</p>		-	-	15.602

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 984 / Major Developmental Testing Instrumentation

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p><i>FY 2025 Plans:</i> The Test Enterprise Network Modernization effort will continue in the engineering and manufacturing phase as an enterprise modernizing approach to the network infrastructure at the test ranges. FY 2025 funds in the amount of \$15.602 Million will continue the standardization of the network that allows modern monitoring, tracking, and troubleshooting of network issues and failure points. Test Centers with high customer demands, such as White Sands Test Center and Yuma Test Center will also be receiving fiber optic network Dense Wavelength Division Multiplexing (DWDM) upgrades to address end of life equipment issues. Funds will also be used to continue the acquisition and installation of hardware needed to revitalize and replace the fiber network at ATC, EPG, and YTC.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding change due to combining the Test Network Modernization program with the ATEC Fiber Modernization program for an enterprise architecture upgrading approach to the networks at the test ranges.</p>			
Accomplishments/Planned Programs Subtotals	48.478	33.532	26.857

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment				Project (Number/Name) 986 / Major Operational Test Instrumentation			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
986: Major Operational Test Instrumentation	-	38.854	6.730	7.899	-	7.899	4.299	4.291	4.469	4.514	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds the development, acquisition, and integration of major operational test instrumentation for the U.S. Army Test and Evaluation Command's Operational Test Command and supporting test activities at test and training ranges. Requirements for instrumentation are identified through a long range survey of project managers, Research Development and Engineering Centers (RDECs), and Battle Laboratories developing future weapon systems and the test programs that support these systems. Project focus is to address Director Operational Test and Evaluation (DOT&E)-identified Army test realism shortfalls.

Projects are designated as a major test program based on their visibility, assessed relative technical risk (medium-high), schedule risk, cost (greater than \$1.500 million per year or \$7.500 million for the total project) and applicability to other mission areas or services. These projects are technically demanding, state-of-the-art, unique instrumentation assets or suites to meet technology shortfalls, and generally result from development programs managed by a professional project management team.

The DOT&E annual report to Congress identified shortfalls in the Army's abilities to create realistic operational environments. The Expeditionary Live Virtual Constructive Command Center (XLCC) (formerly called the Integrated Live-Virtual-Constructive (LVC) Test Environment (ILTE)) project will address multiple shortfalls identified by DOT&E. XLCC is a portfolio of related development efforts that will deliver a system of systems to provide a Real-Time Casualty Assessment (RTCA) and instrumentation suite that delivers a high fidelity, realistic, real-time capability to measure hardware and personnel performance in modern combat environments. XLCC will enable testing under tactical conditions for small and large-scale operations while integrating network operations and effects in support of the Army Equipment Modernization Plan. XLCC also allows the U.S. Army to test all Current-to-Future weapon systems in a realistic operational environment. XLCC will transition Research, Development, Test and Evaluation (RDTE) developed performance enhancements and technology upgrades to the operational test command, control, and communications, communications network, weapons system interfaces, vehicle and dismounted-troop kits and peripherals, Global Positioning System (GPS), encryption components, and integrate operational realistic digital battlefield data collection and analysis tools. These tools will collect, store and analyze data from the digital battlefield. Improvements will enable the XLCC system of systems to measure and record accrued damage, levels of exposure, effects of countermeasures, evasive action, and instrument threat vehicles. This capability is required by the operational test community to integrate digital battlefield data collection and analysis tools to support Project Convergence, Army Modernization priorities and other operational tests.

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

	FY 2023	FY 2024	FY 2025
Title: Exportable Live Virtual Constructive Command Center (XLCC)	4.454	6.730	7.899
Description: Funds the development, acquisition, and integration of major operational test instrumentation for the U.S. Army Test and Evaluation Command's Operational Test Command and supporting test activities at test and training ranges.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) 986 / Major Operational Test Instrumentation

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Funds in the amount of \$6.730 Million will create an operational realistic test environment and integrate with other systems and tools; update Real Time Casualty Assessment and fair-fight methodologies and provide data analytics to the test community; integrate and provide initial interoperability with current and future Multi-Domain Operations (MDO) range threats (e.g. Threat Battle Command Force and Intelligence Electronic Warfare Tactical Proficiency Trainer) through development of Test and Evaluation Network Architecture (TENA) Gateways; provide continuous Software/hardware updates to allow flexibility and modularity in system capabilities in order to deploy ILTE to a multitude of ranges and test sites.</p> <p>FY 2025 Plans: Funds in the amount of \$7.899 Million will build upon and enhance, expand and improve an operationally realistic test environment and integrate with other systems and tools; update Real Time Casualty Assessment to include non-kinetic effects and centralized battle damage assessments (BDAs); increased data reduction and collection tools; provide enhanced interoperability with current and future Multi-Domain Operations (MDO) range threats (e.g. Threat Battle Command Force and Intelligence Electronic Warfare Tactical Proficiency Trainer); provide continuous Software/hardware updates to allow flexibility and modularity in system capabilities in order to deploy XLCC to a multitude of ranges and test sites; increase the mapping ability to include 3D tilting and movement and maps for more test locations; begin integration of the high-fidelity virtual threat models.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 funding increase supports the integration of 2nd generation Synthetic Training Environment products as well as realistic Red-Blue operations in both Live and Simulated environments. This will require modification of the current Expeditionary Live Virtual Constructive Command Center (XLCC) software needed for Operational Test Command to support near term testing and indirect fires data point collection.</p>			
Accomplishments/Planned Programs Subtotals	4.454	6.730	7.899

	FY 2023	FY 2024
Congressional Add: Congressional Add: Advancing operational Test Infrastructure	30.500	-
FY 2023 Accomplishments: Developed prototype threat assets across multiple bands capable of emulating synchronized joint effects in a highly contested, congested RF environment. Incorporated Time, Space, Position Information collection equipment onto threat assets to aid in providing realistic threat signatures and accurate positioning of Systems Under Test (SUT). Integrate high fidelity simulations; and kinetic and non-kinetic RTCA effects.		
Congressional Add: Congressional Add: Expanding the Operational Test Command	3.900	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / <i>Major T&E Investment</i>	Project (Number/Name) 986 / <i>Major Operational Test Instrumentation</i>

	FY 2023	FY 2024
FY 2023 Accomplishments: Congressional Add funds of \$3.900 million to expand the Operational Test Command. Funding expanded testing and evaluation at Texas A&M University-Central Texas to enable enhanced support for Operational Test Command (OTC) at Fort Hood. Additionally, federal dollars enabled OTC to compete at the cutting edge of technology by establishing a low-cost doctoral program in predictive analytics. Investments in programs like the doctoral program provided by Texas A&M University-Central Texas incentivize our military and civilian workforce, allowing DoD to retain talent.		
Congressional Adds Subtotals	34.400	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment				Project (Number/Name) EY9 / Range Radar Replacement Program (RRRP)			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EY9: Range Radar Replacement Program (RRRP)	-	48.238	26.355	38.475	-	38.475	48.136	48.650	49.180	49.671	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

In order to effect strategic overmatch on current and future battlefields, it is essential that the United States (U.S.) Army provide advanced radar system instrumentation for developmental testing. Since existing range radar instrumentation is aged beyond useful life and cannot adequately support emerging test requirements, the Range Radar Replacement Program (RRRP) recapitalizes and develops modern instrumentation radars to replace obsolete tracking and surveillance radars at U.S. Army Test and Evaluation Command's (ATEC) activities, which include: Aberdeen Test Center (ATC), MD; White Sands Test Center (WSTC), NM; and Yuma Test Center (YTC), AZ. RRRP will deliver capability in three (3) block increments: Block I will recapitalize or replace existing radar systems, Block II will develop a Long Range Radar (LRR) which is compliant with ATEC's Test Capability Requirements Document (TCRD), and Block III will develop LRRs and Medium Range Radars (MRRs) to meet ATEC Block III TCRD Addendum. The acquisition of modern instrumentation radar systems will provide the Army with critical testing data essential for the development of next generation technology and advanced system capabilities. The RRRP provides the test centers with improved radar resolution, sensitivity, accuracy, clutter suppression, and reliability. The planned solution to meet program requirements consists of four primary items: Long Range Single Object Tracking Radars (SOTR), Long Range Multiple Object Tracking Radars (MOTR), Medium Range Radars (MRR), and Short Range Radars (SRR). The resulting systems will not only reduce operation and sustainment costs for the ranges, but will improve data collection, thus enhancing development of Army systems being tested at these ranges. The current fleet of instrumentation radars located at ATC, WSTC, and YTC has become antiquated to the extent that they are not able to support the test needs of the test centers.

This Project will procure Modified Commercial Off-the-Shelf (MCOTS) radars for LRR, MRR and SRR solutions, and a combination of recapitalization and MCOTS replacement for the Long Range SOTRs and MOTRs.

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

	FY 2023	FY 2024	FY 2025
Title: EMD Phase	48.238	26.355	38.475
Description: Provides acceptance testing of Short, Medium, Long Range, and MPS-39 MOTR instrumentation radars and continues development of the first Block II Long Range radar prototype and Block III radars.			
FY 2024 Plans: FY24 in the amount of \$26.355M provides funding for acceptance testing of Medium and Long Range instrumentation radars and continues development Block II Long Range radar prototype and development of Block III radars.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) EY9 / Range Radar Replacement Program (RRRP)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY25 in the amount of \$38.475M provides funding for acceptance testing of Block I Medium and Long Range Instrumentation Radars and continues development of the Block II LRR prototype, and development and demonstration of Block III prototypes.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase in FY25 to continue development of the Block II LRR prototype and Block III demonstration of prototypes.			
Accomplishments/Planned Programs Subtotals	48.238	26.355	38.475

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment				Project (Number/Name) FF1 / Cyber Blue Team			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FF1: <i>Cyber Blue Team</i>	-	2.229	1.149	1.151	-	1.151	1.153	1.166	1.179	1.191	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

In 2016 the Army Acquisition Executive (AAE) designated the Program Manager for Cyber, and Training (PM CT2) (formerly PM ITTS) as the Office of Primary Responsibility for Cyber Acquisition Blue Teams (CABT) certifications and standards program. This Project executes the establishment and management of certification standards for CABT and coordination of requirements on behalf of the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA (ALT)).

PM CT2 will establish certification standards, certify Blue Teams and maintain a vulnerabilities/lessons learned repository. PM CT2 will work with Blue and Red Teams to establish processes which facilitate open network tests under the red team authority, coordinate with Program Managers on CABT efforts on behalf of ASA (ALT) and report to ASA (ALT) on new cyber vulnerabilities. Blue teams will work cooperatively with acquisition programs to make sure all security measures are taken throughout the program's lifecycle, ensuring cyber resiliency. Blue teams are essential to help military operators assess, protect and defeat the presence of cyber security threats across Army Acquisition Programs.

Will focus on the continuation of certifying candidate teams. The goal is to certify enough teams to allow acquisition programs the flexibility to find a certified Blue Team that meet their program's schedule and cost and can be incorporated early on in the program. CABT vulnerability assessments will provide data analytics to report trends and lessons learned. A web portal will serve as a one stop shop for both candidate and certified Blue teams to obtain and maintain their certification.

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

	FY 2023	FY 2024	FY 2025
Title: Cyber Blue Teams	2.229	1.149	1.151
Description: Management and oversight of Cyber Blue Team vulnerability assessments.			
FY 2024 Plans: The funding provides the ability to continue certification of Army Acquisition and Modernization Cyber Assessment Teams (AAMCATs) as well as support the operation and maintenance of an AAMCAT web portal and central repository to include trend analysis and lessons learned from engineering risk reduction assessments.			
FY 2025 Plans: The funding provides the ability to continue certification of Army Acquisition and Modernization Cyber Assessment Teams (AAMCATs) as well as support the operation and maintenance of an AAMCAT web portal and central repository to include trend analysis and lessons learned from engineering risk reduction assessments.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0604759A / Major T&E Investment	Project (Number/Name) FF1 / Cyber Blue Team
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2024 to FY 2025 funding increase represents minor increase due to economic assumptions.			
Accomplishments/Planned Programs Subtotals	2.229	1.149	1.151

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support	R-1 Program Element (Number/Name) PE 0605103A / Rand Arroyo Center
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	30.800	37.078	38.122	-	38.122	38.970	39.386	39.815	40.213	Continuing	Continuing
732: Arroyo Center Spt	-	30.800	37.078	38.122	-	38.122	38.970	39.386	39.815	40.213	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element funds the RAND-Arroyo Center, the Department of the Army's Federally Funded Research and Development Center, for strategic studies and analysis. The Army's management of RAND-Arroyo's activities are governed by AR 5-21. RAND-Arroyo Center provides strategic analytical research across a broad spectrum of issues grouped into the following core competencies research areas: Personnel, Training, and Health; Forces and Logistics; and Strategy, Doctrine and Resources; applied national security knowledge; academic rigor; multidisciplinary teams; and dynamism, which includes innovation and agility. The RAND-Arroyo Center research agenda is primarily focused on mid/long-term strategic concerns. Current priorities include: implementation of the National Defense Strategy; total force readiness; Army modernization; operations and dynamic force employment; reform of business processes; multi-domain operations; soldier-centric investments; and soldier and family resilience. Results and analytical findings directly affect senior leadership deliberations on major issues. The Arroyo Center Policy Committee (ACPC), is co-chaired by the Under Secretary of the Army and Vice Chief of Staff of the Army, provides guidance, sets the annual research plan, and monitors execution. RAND-Arroyo research is sponsored by Army Senior Leaders and Army Major Commands. In FY21, the ACPC 1) directed a change in the execution of the RAND-Arroyo program which resulted in a change to the business model and 2) directed a consolidation of existing resources for the RAND-Arroyo program.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	33.631	37.078	38.045	-	38.045
Current President's Budget	30.800	37.078	38.122	-	38.122
Total Adjustments	-2.831	0.000	0.077	-	0.077
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.601	-			
• SBIR/STTR Transfer	-1.230	-			
• Adjustments to Budget Years	-	-	0.077	-	0.077

Change Summary Explanation

Minor increase in FY25 funding due to economic assumptions.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605301A / <i>Army Kwajalein Atoll</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	297.859	314.872	321.755	-	321.755	328.227	332.733	344.618	350.027	0.000	2,290.091
DW7: <i>Army Kwajalein Atoll Facilities Sustainment</i>	-	38.081	77.482	87.548	-	87.548	89.381	91.258	93.171	95.131	0.000	572.052
DW8: <i>Army Kwajalein Atoll Installation Services</i>	-	207.647	170.928	161.192	-	161.192	160.574	163.102	167.595	170.122	0.000	1,201.160
DW9: <i>Army Kwajalein Atoll Restoration And Modernization</i>	-	41.347	49.938	65.166	-	65.166	70.782	71.340	76.967	77.735	0.000	453.275
DX2: <i>Army Kwajalein Test Ranges and Mission Support</i>	-	10.784	16.524	7.849	-	7.849	7.490	7.033	6.885	7.039	0.000	63.604

A. Mission Description and Budget Item Justification

This Program Element (PE) is unique in the Research, Development, Test & Evaluation (RDTE) portfolio due to the comprehensive scope of RDTE funding at United States (U.S.) Army Garrison Kwajalein Atoll, directly supporting 11 leased islands with radars, telemetry, and optics in support of continuous New Foreign Launch surveillance, space surveillance, space object identification, offensive and defensive strategic ballistic and interceptor missile testing. In addition, responsibilities include provision of the totality of the logistics and municipal services required to maintain a strategically vital mission support infrastructure in a remote Pacific island chain 2,300 miles southwest of Hawaii. Kwajalein's flexible electromagnetic frequency spectrum, equatorial locale, deep water, and unmatched instrumentation make the nation's space and missile operations possible. In addition, the Ronald Reagan Ballistic Missile Defense Test Site (RTS) on Kwajalein is the Department of Defense's (DoD) only land-impact missile testing site, providing an increasingly vital Test & Evaluation (T&E) capability.

The U.S. Army Kwajalein Atoll / Ronald Reagan Ballistic Missile Defense Test Site (USAKA/RTS), located in the Republic of the Marshall Islands, is a remote, secure activity of the Major Range and Test Facility Base (MRTFB). USAKA/RTS supports test and evaluation of major Army and DoD missile and space acquisition programs and provides New Foreign Launch surveillance and space operations (surveillance and object identification) in support of U.S. Strategic Command (USSTRATCOM), the U.S. Air Force, and National Aeronautics and Space Administration (NASA) scientific and space programs. USAG-KA provides Base Operations (BOS), Infrastructure and Services (Projects DW7, DW8, and DW9) support to the USAKA/RTS mission and other resident Programs (i.e. Army missile defense, Air Force & Navy Intercontinental Ballistic Missile (ICBM) developmental and operational tests; Army, Air Force, Navy and Defense Advanced Research Projects Agency (DARPA) hypersonic developmental tests; Air Force Space Fence, Missile Defense Agency (MDA) operational /demonstration/ validation tests; USSTRATCOM space situational awareness requirements (including contributions to the U.S. Space Surveillance Network); and space experiments). Base Operations Services at Kwajalein Atoll are conducted predominantly through a contracted workforce with governmental oversight. These PE-funded contracts provide: installation/base operations and maintenance for all facilities, logistics, and security; power generation fuel supporting the installation and radars; transportation; and mission essential bandwidth via a fiber optic cable system.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605301A / <i>Army Kwajalein Atoll</i>
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The Network Enterprise Technology Command (NETCOM) utilizes Project DX2 to provide civilian pay, manpower service contracts, supporting Information Technology (IT), equipment, and associated costs specifically identified and measurable to plan, manage, coordinate, and execute Information Technology Services Management at Army Kwajalein Test Ranges. This Project provides C4IM services in accordance with the Department of Army Pamphlet (DA PAM) PAM 25-1-1 and the Army C4IM Services List.

FY25 funding in the amount of \$285.940 million is in support of the Pacific Defense Initiative (PDI).

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	309.005	314.872	306.721	-	306.721
Current President's Budget	297.859	314.872	321.755	-	321.755
Total Adjustments	-11.146	0.000	15.034	-	15.034
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.185	-			
• SBIR/STTR Transfer	-10.961	-			
• Adjustments to Budget Years	-	-	15.034	-	15.034

Change Summary Explanation

Funding increased in project DW8 / Army Kwajalein Atoll Installation Services for additional Non-Tactical Vehicles (NTVs).

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll				Project (Number/Name) DW7 / Army Kwajalein Atoll Facilities Sustainment			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DW7: Army Kwajalein Atoll Facilities Sustainment	-	38.081	77.482	87.548	-	87.548	89.381	91.258	93.171	95.131	0.000	572.052
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides resources for preventive maintenance and repair necessary to sustain 1,477 facilities on Kwajalein, Roi-Namur, and nine other leased islands, totaling 2.6 million square feet. Funds are focused toward keeping facilities in good working order in accordance with industry standards. This includes emergency response and service calls, minor repair and major repair or replacement resulting from Kwajalein's particularly harsh climate, including strong winds, saltwater corrosion, and sustained torrential rainfall. Funds also provide manpower necessary to achieve, evaluate, and sustain compliance with appropriate Federal, State, and local environmental laws, Executive Orders, Department of Defense (DoD) Directives, regulations, and overseas country-specific Final Governing Standards.

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

	FY 2023	FY 2024	FY 2025
Title: Real Property Maintenance	37.947	77.340	87.399
<p>Description: This effort provides the preventive maintenance and repair necessary to sustain Kwajalein facilities and utilities in order to prevent further deterioration. Funds facilities and utilities at minimum acceptable levels to mitigate risk of catastrophic failures. Includes regularly scheduled adjustments and inspections, preventive maintenance tasks, and emergency response and service calls for minor repairs. Also includes costs of major repairs or replacement of facility components that are expected to occur periodically throughout the expected service life. This work includes: regular roof replacement; refinishing wall surfaces; repairing and replacing electrical, plumbing, and cooling systems; replacing tile and carpeting; and similar types of work. Sustainment, however, is not intended to keep facilities adequately functioning beyond their expected service lives.</p> <p>FY 2024 Plans: Will continue to service 1,477 facilities on Kwajalein, Roi-Namur, and the nine other leased islands, totaling 2.6 Million square feet. Will continue an aggressive maintenance plan based on the significant corrosive environment; prepare maintenance plans and schedules for recurring or preventive maintenance; perform periodic pre-maintenance inspections; perform preventive and corrective maintenance; report the need for major repair, replacement, or rehabilitation; prepare records of maintenance actions performed and deficiencies discovered; and perform post-maintenance inspections.</p> <p>FY 2025 Plans: Will continue to service 1,477 facilities on Kwajalein, Roi-Namur, and the nine other leased islands, totaling 2.6 Million square feet. Will continue an aggressive maintenance plan based on the significant corrosive environment; prepare maintenance plans and schedules for recurring or preventive maintenance; perform periodic pre-maintenance inspections; perform preventive and</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW7 / Army Kwajalein Atoll Facilities Sustainment		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
corrective maintenance; report the need for major repair, replacement, or rehabilitation; prepare records of maintenance actions performed and deficiencies discovered; and perform post-maintenance inspections. FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased to prioritize barracks sustainment and adjustment for economic factors.				
Title: Environmental Quality Description: This effort provides manpower necessary to achieve, evaluate, and sustain compliance with appropriate Federal, State, and local environmental laws, Executive Orders, DoD Directives, regulations, and overseas country-specific Final Governing Standards, in order to protect human health and safety and reduce total cost to the Army through environmental compliance, conservation, and pollution prevention. Enables installations to comply with legal environmental mandates and critical stewardship responsibilities that impact management and modernization of installations, while sustaining natural and cultural resources in a manner that provides continued access and long-term use of training lands to support the Army's installation missions.. FY 2024 Plans: Will continue to service 1,477 facilities on Kwajalein, Roi-Namur, and the nine other leased islands, totaling 2.6 Million square feet. Will continue an aggressive maintenance plan based on the significant corrosive environment; prepare maintenance plans and schedules for recurring or preventive maintenance; perform periodic pre-maintenance inspections; perform preventive and corrective maintenance; report the need for major repair, replacement, or rehabilitation; prepare records of maintenance actions performed and deficiencies discovered; and perform post-maintenance inspections. FY 2025 Plans: Will continue to service 1,477 facilities on Kwajalein, Roi-Namur, and the nine other leased islands, totaling 2.6 Million square feet. Will continue an aggressive maintenance plan based on the significant corrosive environment; prepare maintenance plans and schedules for recurring or preventive maintenance; perform periodic pre-maintenance inspections; perform preventive and corrective maintenance; report the need for major repair, replacement, or rehabilitation; prepare records of maintenance actions performed and deficiencies discovered; and perform post-maintenance inspections. FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.		0.134	0.142	0.149
Accomplishments/Planned Programs Subtotals		38.081	77.482	87.548
C. Other Program Funding Summary (\$ in Millions) N/A				

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW7 / Army Kwajalein Atoll Facilities Sustainment

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

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll				Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DW8: Army Kwajalein Atoll Installation Services	-	207.647	170.928	161.192	-	161.192	160.574	163.102	167.595	170.122	0.000	1,201.160
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project resources Base Operations / Installation Services Support for United States (U.S.) Army Kwajalein (USAKA) Garrison located in the Republic of the Marshall Islands, a remote, secure activity designated as a Major Range and Test Facility Base (MRTFB). Base Operations / Installation Services Support resourcing is a critical enabler to ensure continuity of operations supporting Test and Evaluation and Space Operations of the Ronald Reagan Ballistic Missile Test Site in its role as an MRTFB Activity. Kwajalein is a government-managed / contractor-operated (GOCO) site and is primarily dependent upon its associated support contracts for the daily operations and maintenance of Base Operations / Installation Services Support. Installation Services Support consists of: Utility Services; logistical (fuel/transportation) operations support requirements; Medical/Dental Services; Education (K-12) Services; Food/Grocery Services; Contracted Security Guards; and Aviation/Marine support.

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

	FY 2023	FY 2024	FY 2025
Title: Army Airfields (AAF) and Heliports (AHP)	14.753	8.627	4.004
<p>Description: Provides Resources Operations and Maintenance for Army Airfield and Aviation Fleet. Provides manpower, equipment acquisition, sustainment and maintenance in support of airfield operations, airfield management, aircraft services, air traffic services (ATS), air transport, airspace management and control, and air traffic control equipment maintenance. Includes airfield specific equipment, safety requirements, Hazardous Materials (HAZMAT) support, and airfield obstruction surveys. AAF/AHP functions support Department of Defense (DoD) priorities for Army and joint force capabilities and inter-agency, intra-agency and multinational operations to meet current and future full spectrum requirements. Funds AAF/AHP functions at the necessary state of readiness to support missions across eleven islands (two fixed wing/six rotator wing) in addition to international aircraft traffic and reduces risk of major accidents/incidents.</p> <p>FY 2024 Plans: Will provide services for all mission essential DoD, commercial, and transient aircraft. Operate two Airfields and eight outer islands helipads. Operate and maintain one Air Traffic Control (ATC) tower with class D airspace, two separate airfield operations and integrated STARS radar for aircraft separation and de-confliction. Support all intra-atoll cargo and personnel movements with two fixed wing and four rotary wing aircraft. Support transient international flights.</p> <p>FY 2025 Plans: Will provide Airfield services for DoD, commercial and support transient international flights. Operate and maintain two Airfields and eight island helipads. Operate and maintain Air Traffic Control (ATC) tower with class D airspace, integrated STARS radar for</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
aircraft separation and de-confliction. Support all intra-atoll cargo and personnel movements with two fixed wing and four rotary wing aircraft.				
FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to realignment of Airfield hours of Operation, Services & Flight Management				
Title: Army Community Services (ACS)		-	0.303	0.306
Description: Provides programs that prevent family violence/fatalities through family advocacy programs and counseling; provide specialized assistance to provide prevention, education and family sustainment for military and civilian personnel and their families; and also provide critical financial, employment and relocation education and training to Soldiers, civilians, and their Families.				
FY 2024 Plans: Will continue to provide necessary/routine Army Community Services to the Installation.				
FY 2025 Plans: Will provide essential Army Community Services to personnel on the Installation.				
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.				
Title: Child and Youth Services (CYS)		1.565	0.460	0.941
Description: Provides child care, youth, and school services (CYSS) programs for children and youth. Provides child and youth spaces required to meet Army's child care and youth participation demand goals. Resources the following programs: 1) Child Development Centers; 2) Family Child Care; 3) School Age Care; 4) Youth Programs; 5) Youth Sports & Fitness; 6) School Support Services. Resources staffing levels necessary to minimize risk of child abuse, and the oversight to achieve and maintain DoD Certification (State licensing equivalent) and National Accreditation per statutory requirement and DoD policy.				
FY 2024 Plans: Will continue to provide resources to operate CYS programs on Kwajalein to include a Child Development Center, School Age Services programs, Supplemental Programs and Services, and Youth programs and services. Establish and maintain developmentally and age-appropriate staff-child/youth interactions, activities, activity schedules and plans, supplies and equipment, furnishings, and environment (both indoors and outdoors) that lead to the social, physical, cognitive, and emotional growth of children up to 18 years. Ensure that youth programs include, at a minimum, seasonal sports programs, 4-H Club				

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>programs, Boys and Girls Club of America programs, instructional programs, recreational programs, programs that promote leadership and citizenship, intervention services, and teen programs.</p> <p>FY 2025 Plans: Will provide Child Youth Service Programs on Kwajalein to include the operation of Child Development Center, School Age Services programs, Supplemental Programs and Services, and Youth programs and services. Establish and maintain developmentally and age-appropriate staff-child/youth interactions, activities, activity schedules and plans, supplies and equipment, furnishings, and environment that lead to the social, physical, cognitive, and emotional growth of children up to 18 years. Provide at a minimum Youth Programs including seasonal sports programs, 4-H Club programs, Boys and Girls Club of America programs, instructional programs, recreational programs, programs that promote leadership and citizenship, intervention services, and teen programs.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>			
<p>Title: Engineering Services</p> <p>Description: Provides (1) Facility Management and Administration and (2) Installation Engineering Services. Facility Management includes public works management costs, contract management, material procurement, facility data management; to include, Geographic Information System (GIS) and Sustainment Management Systems (SMS) suite implementation/inspections, furnishings management costs, and real property and real estate management. Installation Engineering Services includes facility engineer service contracts, annual inspection of facilities, master planning, overhead of planning and design, and overhead of construction management and non-Sustainment and Restoration Modernization (SRM) service calls. Excludes: vehicle maintenance, in-house shop and contracted personnel who routinely perform facility sustainment activities; and design engineers or project managers or construction inspectors who manage and oversee facility sustainment and construction projects.</p> <p>FY 2024 Plans: Will continue to provide necessary/routine engineering services to the Installation.</p> <p>FY 2025 Plans: Will provide essential engineering services in support of over 1,416 assets across the Installation.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to realignment of Real Property Management & Engineer Services</p>	9.509	3.110	3.030
<p>Title: Soldier Recreation and Community Support</p> <p>Description: Provides the development and delivery of Soldier Programs, Community Recreation, and Direct Common Family and Morale, Welfare and Recreation (FMWR) Support Services that sustain the Total Army, in accordance with (IAW) the Army</p>	2.542	0.283	-

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Campaign Plan and the Chief of Staff of the Army (CSA)'s Strategic Priorities. Programs funded include sports, fitness and aquatics, recreation centers, libraries, outdoor recreation, skill development, bowling (16 lanes or less); Direct Common FMWR Support Services (essential command and control and risk management programs for property, funds and personnel); and as designated by Congress, Category C FMWR activities at remote and isolated sites. These programs resource readiness and resiliency and build upon physical, emotional, social and psychological coping skills; funds opportunities for Soldiers, civilians and Families to foster self-reliance, morale and a sense of belonging by offering positive discretionary time choices, mitigating aberrant behaviors through individual skill development and team participation.</p> <p>FY 2024 Plans: Will continue to provided resources necessary to sustain Soldier Recreation and Community Support for a community population of 1400 and meet the needs of USAKA/RTS residents, tenants, satellite activities, range users, and other authorized organizations/personnel on Kwajalein Island, Roi-Namur Island, Meck Island, and on other USAKA/RTS outer islands.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: This effort concludes in FY24 due to Army manpower reduction.</p>			
<p>Title: Fire and Emergency Services (FES)</p> <p>Description: Provides for fire and emergency services for the installation, including preparation for and response and mitigation of aircraft and structural firefighting and rescue, technical rescue, Hazardous Materials and Weapons of mass destruction/Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) responses, and out of control wildfire mitigation in an all-hazard response environment.</p> <p>FY 2024 Plans: Will continue to provide fire and Emergency Services which are performed in association with the Base Support/Logistics contractor. Provide fire protection services for all USAG-KA and RTS assets, to include facilities, structural, aircraft, shipboard and small watercraft, and wild land fires. Services provide protection for the fire hazards associated with operations and community at USAG-KA and RTS. Provide Fire Protection on Kwajalein and Roi-Namur 24 hours Provided Fire Protection and Emergency Services on Meck during duty hours, mission periods, and hazardous operations. Provide ambulance service on Kwajalein, Meck, and Roi-Namur Islands. Provide fire safety education and activities for the schools and child development center and for adult residents of USAG-KA. Train personnel normally assigned to work on the remote islands of Illeginni, Ennylabegan, Gagan, and Legan in first aid, Cardiopulmonary Resuscitation (CPR), and operation of fire extinguishers and fire alarm and suppression equipment peculiar to the island. Provide rescue and emergency medical personnel available for immediate dispatch to aircraft or vessel crash site, entry into the ocean or lagoon, and be provisioned for immediate rescue and emergency medical assistance.</p> <p>FY 2025 Plans:</p>	10.212	5.219	5.508

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Will provide essential fire and Emergency Services performed in association with the Base Support/Logistics contractor. Provide fire protection services for all USAG-KA and RTS assets, to include facilities, structural, aircraft, shipboard and small watercraft, and wild land fires. Provide protection for the fire hazards associated with operations and community at USAG-KA and RTS. Provide Fire Protection on Kwajalein and Roi-Namur 24 hours Provided Fire Protection and Emergency Services on Meck during duty hours, mission periods, and hazardous operations. Provide ambulance service on Kwajalein, Meck, and Roi-Namur Islands. Provide fire safety education and activities for the schools and child development center and for adult residents of USAG-KA. Train personnel normally assigned to work on the remote islands of Illeginni, Ennylabegan, Gagan, and Legan in first aid, Cardiopulmonary Resuscitation (CPR), and operation of fire extinguishers and fire alarm and suppression equipment peculiar to the island. Provide rescue and emergency medical personnel available for immediate dispatch to aircraft or vessel crash site, entry into the ocean or lagoon, and be provisioned for immediate rescue and emergency medical assistance.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>				
<p>Title: Financial Management (FM) Activities</p> <p>Description: Provides Directorate of Resource Management (DRM) and DRM base support for Army tenants resident on or receiving support from the Army installation. Functions of the DRM include program, budget, manpower, documentation, Memorandum of Understanding (MOU)/Memorandum of Agreement (MOA)/Support Agreement management, finance and accounting.</p> <p>FY 2024 Plans: Will Continue to provide program/budget support and budget execution, financial advisory service and accounting liaison services. Support Audit Readiness through Statement of Budgetary Resource samples. Continue to establish Inter-service Support Agreements (ISSA). Provide management analysis on manpower requirements and organizational structure analysis. Provide Contracting Officer Representative oversight for the Program Management functions for the base-support contract.</p> <p>FY 2025 Plans: Will provide program/budget execution support, financial advisory services, and accounting liaison services. Provide Audit Readiness through Statement of Budgetary Resource samples. Continue to establish Inter-service Support Agreements (ISSA). Provide management analysis on manpower requirements and organizational structure analysis. Provide Contracting Officer Representative oversight for the Program Management functions for the base-support contract.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>		0.695	0.709	0.745
<p>Title: Food Services</p>		16.203	9.725	9.823

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Provides for the operation of dining facilities including contract employees, food service supplies, and equipment life-cycle replacement.</p> <p>FY 2024 Plans: Will continue to provide services for DoD, contractor, host nation, interagency and intra-agency organizations with multiple facilities on three different islands to include 3 cafeterias, bakery, grocery store, dry/cold warehousing, AAFES retail stores, AAFES food court, and catering services and private organizations. Monitor and approve food purchases and preparation. Conduct food service inspections.</p> <p>FY 2025 Plans: Will provide essential food services for DoD, contractor, host nation, interagency and intra-agency organizations with multiple facilities on three different islands to include 3 cafeterias, bakery, grocery store, dry/cold warehousing, AAFES retail stores, AAFES food court, catering services and private organizations. Provide monitoring and approval of food purchases, preparations, and food service inspections.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.</p>			
<p>Title: Unaccompanied Housing</p> <p>Description: Provides for Government-owned Unaccompanied Housing including appropriated funded Army lodging, lifecycle replacement furnishings, and other associated costs. Includes Manpower purchase, control, moving, management and handling of lifecycle replacement and repair for all unaccompanied housing furnishings. Includes all costs of authorized replacement furnishings in existing inventory.</p> <p>FY 2024 Plans: Will continue to provide contractor management, oversight, M&R, and control of all USAG-KA Housing/ Billeting Facilities Utilize best commercial residential business practices to ensure basic quality of life standards are achieved and are in compliance with life and safety standards. Provide Master Key control services. Provide and implement a sound furnishings and appliances program that addresses acquisition, replacement, M&R, and refurbishing. Provide Hospitality Kits consisting of the minimum essential items to operate a household until permanent party personnel's HHG arrive and from HHG shipment until departure. Provide COOM on all facilities prior to reassignment to in-coming resident.</p> <p>FY 2025 Plans: Will provide contractor management, oversight, Maintenance & Repair (M&R), and control of all USAG-KA Housing/Billeting utilizing best commercial residential business practices to ensure basic quality of life standards are achieved and comply with life,</p>	1.387	1.730	0.823

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>health, and safety standards. Provide Master Key control services. Provide and implement a furnishings and appliances program that addresses acquisition, replacement, M&R, and refurbishing. Provide Hospitality Kits consisting of the minimum essential items to operate a household until permanent party personnel's HHG arrive and from HHG shipment until departure. Provide COOM on all facilities prior to reassignment to in-coming resident.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to realignment from UH Operations.</p>				
<p>Title: Law Enforcement</p> <p>Description: Provides Law Enforcement (LE) activities/services for the protection of people and property, enforcement of laws, and maintenance of order. This effort covers, but is not limited to: all personnel and operating costs associated with LE operations, salaries, overtime, benefits, material and supplies, equipment, vehicles, training and management for LE response forces (Department of the Army Civilian Police (DACP) and military police (MP)). Funds the conduct of motor vehicle traffic supervision, and liaison with civilian LE agencies. Funds LE work load derived from historical responses to calls for service (i.e. Crimes against Persons, Drug Crimes, Traffic Crimes, Absent Without Leave (AWOL), Sex Crimes, and Crimes against Property, Environmental Violations, Fraud Crimes, Alarm Response and Public Service Calls), investigation of non-felony level offenses, preparation and distribution of MP reports and related documents, and collection and analyses of crime statistics.</p> <p>FY 2024 Plans: Will continue to provide Law Enforcement activities/services for the protection of people and property, enforcement of laws, and maintenance of order. Will cover, but not limited to, all personnel and operating costs associated with LE operations, salaries, overtime, benefits, material and supplies, equipment, vehicles, training and management for LE response forces.</p> <p>FY 2025 Plans: Will provide Law Enforcement activities/services for the protection of personnel and property and enforcement of laws and promote order. Will cover, but not limited to, all personnel and operating costs associated with LE operations, salaries, overtime, benefits, material and supplies, equipment, vehicles, training, and management for LE response forces.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>		1.543	1.844	2.088
<p>Title: Materiel Maintenance</p> <p>Description: Provide for automotive, Marine vessel, Construction, General Equipment, and Armament Maintenance. Also provides Field and Sustainment level maintenance services to Army activities in accordance with AR 750-1; provides maintenance technical assistance to supported units and activities, and provides material maintenance on base operations support equipment.</p>		17.008	3.096	13.995

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Will continue to provide resources for the maintenance of assigned aircraft, marine vessels, heavy equipment, non-tactical and tactical equipment, construction equipment; base operations equipment and marine navigational aides. Provide government estimates for repair/ replacement of damaged, lost or lifecycle replacement equipment. Provide resources for On-Condition Cyclic Maintenance (OCCM) for marine vessels.</p> <p>FY 2025 Plans: Will provide resources for essential maintenance of assigned aircraft, marine vessels, heavy equipment, non-tactical and tactical equipment, construction equipment, base operations equipment, and marine navigational aides. Provide government estimates for repair/replacement of damaged, lost or lifecycle replacement equipment. Provide resources for On-Condition Cyclic Maintenance (OCCM) for marine vessels.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to Baseline Adjustment.</p>			
<p>Title: Municipal Services</p> <p>Description: Provides for municipal services including grounds maintenance, custodial, pest management, solid waste or refuse handling operations, pavement clearance.</p> <p>FY 2024 Plans: Will provide necessary/routine municipal services to the Installation.</p> <p>FY 2025 Plans: Will provide essential municipal services including custodial, refuse disposal and grounds & maintenance services across the Installation.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>	9.972	4.964	5.525
<p>Title: Installation Command and Management</p> <p>Description: Provides for a K-12 school system, medical/dental services, and Base Support Contract overhead fees. Additionally, supports offices of the Commander, Staff Judge Advocate (SJA), Chaplain, Public Affairs (PA), and Safety Office. Supports civilian pay and benefits, training, duty travel, Permanent Change of Station (PCS) costs, equipment, and contractual services for installation command and management activities. Kwajalein Medical/Dental services provide family practice and emergency services at Kwajalein (2-5 days for MEDEVAC support to Honolulu), a secondary clinic on Roi-Namur, and a dental clinic. Support</p>	65.089	37.399	38.237

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>includes but is not limited to medical lab and imaging services, pharmacy services, basic dental services, and all medical functions including inspections of medical facilities.</p> <p>FY 2024 Plans: Will provide Installation Command and Management across 11 islands/defense sites to a population of over 100 Active Duty Military and Department of the Army civilians & 1100 contractors and their family members. Plan, organize, staff, direct, and control all aspects of installation and command management.</p> <p>FY 2025 Plans: Will provide Installation Command and Management Staff Services across 11 islands/defense sites to over 100 Active Duty Military and Department of the Army civilians and 1,100 contractors and their family members. Plan, organize, staff, direct, and control all aspects of installation and command management.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>			
<p>Title: Personnel Services Delivery</p> <p>Description: Provides a human resource specialist responsible for providing all aspects of human resource management, administrative, and counsel to the Garrison Staff.</p> <p>FY 2024 Plans: Will continue to provide human resource support to the Garrison Staff.</p> <p>FY 2025 Plans: Will provide essential human resource support services to the Garrison Staff.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>	0.096	0.142	0.149
<p>Title: Physical Security Matters</p> <p>Description: Provides resources for physical security programs and equipment to support Army installations and facilities requirements. Procures, installs, maintains and/or leases physical security equipment to include, but not limited to barriers; blast mitigation devices; communication systems; explosive detection devices; intrusion detection systems and devices; sensors; site improvements; management/planning; and security forces and technicians. Funds contract security guards including military working dog management and equipping the installation with explosive and drug detection dog capabilities.</p> <p>FY 2024 Plans:</p>	5.533	6.148	6.153

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Will continue to provide the necessary physical security procedures and materials to ensure USAG-KA maintains all proper security measures.</p> <p>FY 2025 Plans: Will provide essential physical security services in order to secure/protect personnel and Army assets on USAG-KA.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>				
<p>Title: Army Security Programs</p> <p>Description: Funds Army Command security activities supporting: Information Security, Personnel Security, Industrial Security, Communications Security (COMSEC) Policy, Security Education, Training and Awareness (SETA), Special Access Program (SAP) Security, Sensitive Compartmented Information (SCI) Security, Foreign Disclosure, and Technology Protection.</p> <p>FY 2024 Plans: Will continue to provide the necessary security procedures and materials to ensure USAGKA maintains all proper security measures to ensure successful missions continue on USAGKA.</p> <p>FY 2025 Plans: Will provide essential security services, training, and education to ensure effective security procedures/measures are maintained in order to ensure mission success on USAG-KA.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>		0.084	0.142	0.149
<p>Title: Supply Logistics</p> <p>Description: Provides supply operations which support: ammunition supply point services, bulk petroleum operations, marine and aviation assets, Army tenants, operation of a central receiving point and/or Installation Supply Support Activity (SSA) for goods delivered to the installation, management of non-deployable installation property, and receipt, storage, issue, reutilization and tracking of hazardous materials.</p> <p>FY 2024 Plans: Will continue to provided resources for property accountability of all GFE/CAP, reutilization items, Military Standard Requisitioning and Use Procedures ordering and delivery to multiple outer islands. Dispose of obsolete items in accordance with Army equipment disposition procedures.</p> <p>FY 2025 Plans:</p>		26.372	62.023	26.273

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Will provide essential resources for property accountability of all GFE/CAP, reutilization items, Military Standard Requisitioning, storage, and delivery to multiple outer islands. Dispose of obsolete items in accordance with Army equipment disposition procedures.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The decrease in funding carries through planned DW8 program decreases and better aligns resources within the project based on historical execution analysis.</p>				
<p>Title: Transportation Services</p> <p>Description: Provides the operation of installation transportation offices, transportation motor pools, and cost of rolling stock; also includes movement of privately-owned household goods of military personnel (and civilian personnel in overseas areas) in connection with assignment, reassignment, or termination of government-furnished family housing.</p> <p>FY 2024 Plans: Will continue to provide resources for the operation of all transportation services to include 6 aircraft, 17 marine vessels, and over 200 pieces of rolling stock. Operate a centralized motor pool. Fund operations for movement of all international and intra atoll air and surface cargo to include mission critical equipment and supplies, household goods, HAZMAT, United States Postal Service (USPS) mail, medical, and food items. Safely ferry over 48,000 mission critical employees per month within the atoll on various USAGKA marine assets.</p> <p>FY 2025 Plans: Will provide essential daily resources for the operation of all transportation services to include 6 aircraft, 17 marine vessels, and over 200 pieces of rolling stock. Operate a centralized motor pool. Fund operations for movement of all international and intra atoll air and surface cargo to include mission critical equipment and supplies, household goods, HAZMAT, United States Postal Service (USPS) mail, medical, and food items. Safely transport over 48,000 mission critical employees monthly across various USAG-KA marine assets.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased for additional Non-Tactical Vehicles (NTVs).</p>		14.479	4.093	19.933
<p>Title: Utilities</p> <p>Description: Provides utility services - production and distribution of utilities including expenses for electricity, steam, hot water, fuels and other utilities, and operation of electrical, air conditioning, refrigeration, water distribution, and wastewater collection and treatment plants and systems.</p> <p>FY 2024 Plans:</p>		7.827	18.366	20.931

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Will continue to provide resources including fuel to operate and maintain seven Power generation and distribution systems on Kwajalein; nine on Roi, five on Meck, and eleven total on the outer islands of Carlos, Gagan, Illeginni, and Legan, distributing over 7.5 Million kilowatt hours / month. Operate, maintain, and repair all prime power plants, distribution systems, and ancillary equipment and related systems, including fixed and portable auxiliary generators. Provide reliable power during mission windows. Develop and implement a maintenance plan which includes operator maintenance, predictive maintenance, Program Management (PM), cyclical, and recurring maintenance, as well as periodic equipment and systems overhauls for all power production systems. Provide appropriate staff to operate power plants 24 hours a day. Operate and maintain potable and non-potable water production & distribution systems. Operate and maintain wastewater treatment plant water systems and storage including equipment. Distribute water to a population of approximately 1400 people consuming over 5.3 million gallons of water per month. Operate all wastewater treatment plants and equipment, collection and distribution systems, and all ancillary equipment and other related systems, including septic tanks. Develop, implement, and manage a waste management program including collection, incineration, landfill, compost, and recycling facilities. Provide preventative, cyclical and recurring, and unscheduled maintenance and repair of the Incinerator and all ancillary equipment and systems.</p> <p>FY 2025 Plans: Will provide essential resources including fuel to operate and maintain 23 Power generation and distribution systems supporting Kwajalein, Roi, Meck, and the outer islands of Carlos, Gagan, Illeginni, and Legan, distributing over 7.5 million kilowatt hours/ month. Operate, maintain, and repair all prime power plants, distribution systems, and ancillary equipment and related systems, including fixed and portable auxiliary generators. Provide reliable power during mission windows. Develop and implement a maintenance plan which includes operator maintenance, predictive maintenance, Program Management (PM), cyclical, and recurring maintenance, as well as periodic equipment and systems overhauls for all power production systems. Provide appropriate staff to operate power plants 24 hours a day. Operate and maintain potable and non-potable water production & distribution systems. Operate and maintain wastewater treatment plant water systems and storage including equipment. Distribute water to a population of approximately 1,400 people consuming over 5.3 million gallons of water per month. Operate all wastewater treatment plants and equipment, collection and distribution systems, and all ancillary equipment and other related systems, including septic tanks. Develop, implement, and manage a waste management program including collection, incineration, landfill, compost, and recycling facilities. Provide preventative, cyclical and recurring, and unscheduled maintenance and repair of the Incinerator and all ancillary equipment and systems.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>			
<p>Title: Environmental Quality</p> <p>Description: Provides manpower and funding necessary to achieve, evaluate, and sustain compliance with appropriate Compact of Free Association, national, and USAKA Environmental Standards, Executive Orders, DoD Directives, regulations, and overseas</p>	2.764	2.312	2.337

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>country-specific. Final Governing Standards, in order to protect human health and safety and reduce total cost to the Army through environmental compliance, conservation, and pollution prevention. Enables installations to comply with legal environmental mandates and critical stewardship responsibilities that impact management and modernization of installations, while sustaining natural and cultural resources in a manner that provides continued access and long-term use of training lands to support the Army's installation missions. Also includes costs associated with Range Military Construction (MILCON) to address one-time mitigation actions.</p> <p>FY 2024 Plans: Will provide necessary/routine environmental quality services to the Installation.</p> <p>FY 2025 Plans: Will provide essential environmental quality services within applicable Laws, Regulations and DoD Directives to maintain a safe environment across the Installation.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.</p>			
<p>Title: Anti-Terrorism (AT)</p> <p>Description: Funds the Army Antiterrorism program, a defensive program to protect against Terrorism. Supports the following: Antiterrorism installation and mission requirements: Combatant Commands (COCOM) Antiterrorism requirements (Army as Executive Agent (EA)), Antiterrorism Program Management, Antiterrorism Training and Awareness efforts (Area of Responsibility (AOR) specific, Level I Antiterrorism Awareness Training, Level II Antiterrorism Officers Training, Level III Pre-command training, and Level IV Antiterrorism Executive Seminar), protection of High Risk Personnel (HRP) to include support requirements (equipment), execution of Antiterrorism Assessments (Terrorism Vulnerability Assessments, Special Event Assessments, Pre-deployment Vulnerability Assessments, and Comprehensive Antiterrorism Reviews) designed to identify and fix protection vulnerabilities that will protect personnel and facilities from terrorist acts, intelligence support to Army Antiterrorism, conduct annual Antiterrorism Exercises designed to execute Antiterrorism plans, and the implementation of the Random Antiterrorism Measures Program (RAMP) and the Force Protection Condition (FPCON) system.</p> <p>FY 2024 Plans: Will provide antiterrorism programs. Will provide personnel with the necessary training and identify high risk individuals when appropriate. Will continue to identify and update vulnerabilities to our facilities and put protective measures in place to reduce risks to mission.</p> <p>FY 2025 Plans:</p>	0.014	0.233	0.242

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW8 / Army Kwajalein Atoll Installation Services

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Will provide essential antiterrorism services incorporating AT training to personnel and risk identification when appropriate. Will identify and update vulnerabilities to our facilities and ensure protective measures in place to reduce risks to mission. FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an adjustment for economic factors.			
Accomplishments/Planned Programs Subtotals	207.647	170.928	161.192

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll				Project (Number/Name) DW9 / Army Kwajalein Atoll Restoration And Modernization			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DW9: Army Kwajalein Atoll Restoration And Modernization	-	41.347	49.938	65.166	-	65.166	70.782	71.340	76.967	77.735	0.000	453.275
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds the restoration and modernization of United States (U.S.) Army Kwajalein Atoll (USAKA) degraded infrastructure (Real Property/facilities) to working condition and upgrades facilities to meet current standards. Restoration consists of repair and replacement work to fix facilities degraded due to the effects of aging and previously deferred sustainment. Modernization supports upgrade of facilities to meet current codes, accommodate new functions, and/or replace building components that exceed the overall service life of the facilities.

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

	FY 2023	FY 2024	FY 2025
Title: Recapitalization Deficit R&M	41.347	49.938	65.166
Description: Provides facility restoration for facilities not specifically aligned to specified Facility Investment Strategy focus areas. Funds facilities quality improvement required to achieve elimination of Q4/Q3 Installation Status Report (ISR) rated facilities. In addition to major renovation costs, facility costs include project tails in accordance with AR 420-1 for: National Environmental Policy Act (NEPA) compliance.			
FY 2024 Plans: Will continue to provide resources against the HQDA-approved 15-year investment plan, focusing on completion of the Bucholz Army Airfield runway, including repair of 1000 feet on both ends of the runway down to subgrade, resurfacing center section of runway, and repairing aged and deteriorating airfield pavements to include airfield lighting and back up generator.			
FY 2025 Plans: Will continue to provide resources against the HQDA-approved 15-year investment plan, focusing on completion of the Bucholz Army Airfield runway, including repair of 1000 feet on both ends of the runway down to subgrade, resurfacing center section of runway, and repairing aged and deteriorating airfield pavements to include airfield lighting and back up generator.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is due to Army Energy Infrastructure Modernization and Climate Initiatives and adjustments for economic factors.			
Accomplishments/Planned Programs Subtotals	41.347	49.938	65.166

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DW9 / Army Kwajalein Atoll Restoration And Modernization

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll				Project (Number/Name) DX2 / Army Kwajalein Test Ranges and Mission Support			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DX2: Army Kwajalein Test Ranges and Mission Support	-	10.784	16.524	7.849	-	7.849	7.490	7.033	6.885	7.039	0.000	63.604
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds Network Enterprise Technology Command (NETCOM) installation management-related Command, Control, Communications, Computers, and Information Management (C4IM) services at Army Kwajalein Test Ranges. NETCOM utilizes this Project to provide civilian pay, manpower service contracts, supporting Information technology (IT) equipment, and associated costs specifically identified and measurable to plan, manage, coordinate, and execute Information Technology Services Management at Army Kwajalein Test Ranges. Project provides C4IM services in accordance with the Department of Army Pamphlet (DA PAM) PAM 25-1-1 and the Army C4IM Services List. Provides Base Communications Support (Service 701), Visual Information (Service 702), Information Assurance (Service 703), and Automation (Service 700). Includes the delivery of services consisting of secure and non-secure fixed voice communications, wireless voice, data and video connectivity services, and studio video conferencing services. Provides infrastructure support, including the design, installation, and maintenance of special circuits/systems in support of life safety/security systems and monitoring/control systems. Provides Collaboration and Messaging Services including services and tools for workforce to communicate and share information. Provides Application and Web-hosting including operation and management services required to support web and application hosting. Provides Desktop Management Support including management and support for end-user hardware and software services and tools. Includes Service Desk Support, Continuity of Operations, and Disaster Recovery support.

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

	FY 2023	FY 2024	FY 2025
Title: Contractor Support (C4IM Services)	9.040	14.767	6.091
<p>Description: The Contractor shall provide non-personnel IT support to the 30th Signal Battalion NEC on Kwajalein Atoll. The NEC's IT environment includes any hardware, software, application, tool, system, or network used by the Government, whether developed, leased, or commercially purchased. Although this is a level of effort service contract, there are currently 74 contractors supporting this capability at Kwajalein. The contract covers supply and small equipment replacement that are needed to perform C4IM services.</p> <p>FY 2024 Plans: Work shall include current and new systems at various lifecycle stages, and any future applications and systems not currently identified in this PWS. The 30th Signal Battalion NEC requires support for unclassified and classified networked systems located throughout Kwajalein Atoll, including the islands of Kwajalein, Roi-Namur, Gagan, Omleck, Meck, Carlos, Legan, and Illeginni. Currently, the 30th Signal Battalion NEC supports approximately 2,000 users, computers, and notebooks with about 20 servers, both physical and virtual.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DX2 / Army Kwajalein Test Ranges and Mission Support		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Provide Command, C4IM services in accordance with the DA PAM 25-1-1 and the Army C4IM Services List. Provide Base Communications Support (Service 701), Visual Information (Service 702), Information Assurance (Service 703), and Automation (Service 700). Delivery services consisting of secure and non-secure fixed voice communications, wireless voice, data and video connectivity services, and studio video conferencing services. Provide infrastructure support, including the design, installation, and maintenance of special circuits/systems in support of life safety/security systems and monitoring/control systems. Provide Collaboration and Messaging Services including services and tools for workforce to communicate and share information. Provide Application and Web-hosting including operation and management services required to support web and application hosting. Provide Desktop Management Support including management and support for end-user hardware and software services and tools, to include Service Desk Support, Continuity of Operations, and Disaster Recovery support.</p> <p>FY 2025 Plans: Work shall include current and new systems at various lifecycle stages, and any future applications and systems not currently identified in this PWS. The 30th Signal Battalion NEC requires support for unclassified and classified networked systems located throughout Kwajalein Atoll, including the islands of Kwajalein, Roi-Namur, Gagan, Omleck, Meck, Carlos, Legan, and Illeginni. Currently, the 30th Signal Battalion NEC supports approximately 2,000 users, computers, and notebooks with about 20 servers, both physical and virtual.</p> <p>Provide Command, C4IM services in accordance with the DA PAM 25-1-1 and the Army C4IM Services List. Provide Base Communications Support (Service 701), Visual Information (Service 702), Information Assurance (Service 703), and Automation (Service 700). Delivery services consisting of secure and non-secure fixed voice communications, wireless voice, data and video connectivity services, and studio video conferencing services. Provide infrastructure support, including the design, installation, and maintenance of special circuits/systems in support of life safety/security systems and monitoring/control systems. Provide Collaboration and Messaging Services including services and tools for workforce to communicate and share information. Provide Application and Web-hosting including operation and management services required to support web and application hosting. Provide Desktop Management Support including management and support for end-user hardware and software services and tools, to include Service Desk Support, Continuity of Operations, and Disaster Recovery support.</p> <p>The HQDA team is working to increase funding back to FY24 levels.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The Army reallocated funds to other priorities.</p>				
Title: Civilian Pay		0.304	0.317	0.318
Description: Civilian Pay				

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605301A / Army Kwajalein Atoll	Project (Number/Name) DX2 / Army Kwajalein Test Ranges and Mission Support		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Cost increase based on new civilian pay rates.</p> <p>FY 2025 Plans: Cost increase is reflective of the new civilian pay rates.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Cost increase is reflective of the new civilian pay rates.</p>				
<p>Title: ISSA (Installation Service Support Agreement)</p> <p>Description: ISSA with Garrison to provide all services that would normally be provided by the home station and other services specific to Kwajalein.</p> <p>FY 2024 Plans: Pay Garrison to provide housing, food support, etc.</p> <p>FY 2025 Plans: Pay Garrison to provide housing, food support, etc.</p>		1.440	1.440	1.440
Accomplishments/Planned Programs Subtotals		10.784	16.524	7.849
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	83.668	95.551	86.645	-	86.645	86.068	87.147	94.103	95.044	0.000	628.226
312: <i>Army/Joint Experimentation</i>	-	33.678	35.982	15.061	-	15.061	15.133	15.312	15.276	15.200	0.000	145.642
317: <i>Current Force Capability Gaps</i>	-	49.970	59.555	50.041	-	50.041	48.962	49.422	55.967	56.527	0.000	370.444
33B: <i>Soldier-Centered Analyses For Future Force</i>	-	0.020	0.014	-	-	-	-	-	-	-	0.000	0.034
PC1: <i>Project Convergence (PC)</i>	-	-	-	21.543	-	21.543	21.973	22.413	22.860	23.317	0.000	112.106

Note

In FY 2025, \$21.500M realigned from Project 312: Army/Joint Experimentation to Project PC1: Project Convergence (PC) .

A. Mission Description and Budget Item Justification

The Army Concepts Experimentation Program supports current and future concepts and capabilities involving Soldiers and Leaders within live, virtual, and constructive environments by exploring concepts, capability requirements and solutions across Doctrine, Organization, Training, Materiel, Leadership and Education, personnel, and Facilities (DOTMLPF) domains. The purpose of Concepts Experimentation is to clarify and mitigate risk for current and future forces. Experiments and projects inform Army futures concepts and assess high-risk conceptual assumptions in order to focus required capabilities and represent user requirements in the future Army, to field the Army of 2030 and design the Army of 2040. Army experiments use the combined resources of Army Battle Laboratories, operational units, research labs, materiel developers, industry and academia to collaborate in the development, refinement, and assessment of future force concepts. Simulated Experiments (SIMEX) will integrate and assess Army Concepts and Force Design phases with Army-level issues across the breadth of a campaign that highlights validation and integration of MDO capabilities.

This Program Element (PE) enhances Joint Capabilities Integration and Development System (JCIDS) development in support of Program Executive Offices (PEOs) and Program Managers (PMs) for acquisition milestone decisions. Funding ensures AFC/FCC serves as the voice of the warfighter and compliments the materiel developer in providing total capability management ensuring the integration of DOTMLPF solutions. This PE resources the Army's Continuous Learning Campaign, currently known as Project Convergence (PC). PC is the Army's campaign of learning based on a continuous, structured series of demonstrations and experiments, designed to aggressively advance and integrate our Army's contributions to Joint Force overmatch. It ensures the Army, as part of the Joint fight, can rapidly and continuously integrate or "converge" effects across all domains to overmatch our adversaries in competition and conflict. PC is part of the Army's intent to achieve a full Multi-Domain Operations (MDO) capability by 2035. Capstone is the periodic, joint, multinational experiment within Project Convergence that pulls together concepts, technology, gaps, and requirements at scale for the Army of 2030 and 2040 and applies them to the Indo-Pacific and European theaters. Capstone experiments on ways to defeat our pacing threat in the Indo-Pacific and the five key functions the Army performs in this theater: building and defending bases, command and control for Combined Joint Force (CJF), sustaining logistical supply lines, defensive fires through long-range precision strikes, and counter-attack forces. In addition, Capstone experiments against near-peer adversaries in the European theater, against which the CJF demonstrates pulsed operations to enable a land-centric exploitation. Capstone focuses

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>
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on Army 2040 with the immediate need to integrate select technologies into Army 2030 to keep the Army ahead of our peers and on the leading edge of development. This PE provides funding for Defender, Forager, MDO Live. These experiments help the Army evaluate emerging concepts, new formations, integrate new technologies, and promote interoperability between the Army, other services and multinational partners. This PE also provides funding for Joint Warfighter Assessments (JWA) that physically integrate, assess and evaluate networked capability sets and other adaptive capabilities to accelerate the systems acquisition process of providing DOTMLPF recommendations to the Army. JWA is an integrated part of a series of linked Persistent Experiments (Defender, Forager, MDO Live, and Project Convergence) that help the Army evaluate emerging concepts, integrate new technologies, and promote interoperability between the Army, other services and multinational partners.

The Soldier-Centered Analysis Future Force Project (33B) will provide early application of human performance and human figure modeling tools in the development of Soldier-focused requirements to shape technology for Future Force development. These efforts include design analyses, constructive simulations, and Soldier-in-the loop assessments to ensure that manpower requirements and workload and skill demands are considered, avoiding information and physical task overloads and taking optimum advantage of aptitudes, individual and collective training, and numbers of Soldiers for an affordable Future Force.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	86.824	95.551	86.470	-	86.470
Current President's Budget	83.668	95.551	86.645	-	86.645
Total Adjustments	-3.156	0.000	0.175	-	0.175
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.002	-			
• SBIR/STTR Transfer	-3.154	-			
• Adjustments to Budget Years	-	-	0.175	-	0.175

Change Summary Explanation

Minor increase in FY25 funding from the previous PB to the current PB due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 312 / <i>Army/Joint Experimentation</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>312: Army/Joint Experimentation</i>	-	33.678	35.982	15.061	-	15.061	15.133	15.312	15.276	15.200	0.000	145.642
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2025, \$21.500M realigned from Project 312: Army/Joint Experimentation to Project PC1: Project Convergence (PC) .

A. Mission Description and Budget Item Justification

Army and Joint Experimentation supports current and future concepts and capabilities involving Soldiers and Leaders within live, virtual, and constructive environments by exploring concepts, capability, and formation requirements, and solutions across Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) domains. The purpose of these efforts is to learn and mitigate risk for current and future forces. Experiments and multi-scale assessments inform Army future concepts and assess high-risk conceptual assumptions in order to focus required capabilities, formations and represent user requirements in the future Army. Army experiments use the combined resources of Army Battle Laboratories, operating force units, research laboratories, materiel developers, industry, and academia to collaborate in the development, refinement, and assessment of future force concepts, capabilities and formations at echelon. These experiments are typical in the Joint Warfighting Assessment (JWA) and Army Focused Warfighting Experiments (AFWE)., This project also supports the Army's Simulation-Based Experiments (SIMEX) to integrate and assess near, mid, and far-term future force concepts, force designs, and capabilities. In support of the Army Vision and Army Modernization Strategy, experimentation focuses on the latest Multi-Domain Operations (MDO) Concept, operational and organizational concepts for the Army to validate Army 2030 and provide insights into how the Army will design the Army of 2040 and beyond.

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

	FY 2023	FY 2024	FY 2025
Title: Experimentation - Project Convergence - High-Fidelity Live-Virtual-Constructive Experiments	33.678	35.982	-
<p>Description: Experiments address concept and capability developments including integration of capabilities for all Brigade Combat Team (BCT) types; development of future DOTMLPF requirements and solutions; and acceleration and integration of capabilities for current force BCTs and above brigade.</p> <p>Project Convergence (PC) is the Army's campaign of learning designed to aggressively advance solutions in the areas of people, weapons systems, command and control, information, and terrain, and integrates the Army's contribution to Joint All Domain Operations. PC is a Secretary of the Army priority for Live Prototyping Experimentation in support of the AimPoint Force. Through experimentation and learning, PC helps ensure that the Army has the right people, with the right systems, appropriately enabled, in the right places to support the Joint fight.</p> <p>The Joint Warfighting Assessment (JWA) is the annual capstone force modernization exercise for the U.S. Army. JWA is designed to achieve an enduring three-fold purpose: (1) accelerate force modernization by integrating and assessing Multi Domain</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 312 / <i>Army/Joint Experimentation</i>

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

Operations (MDO) concepts, capabilities, and formations at echelon (BCT to Theater Army/CJTF); (2) train a Joint, Interagency, and Multinational (JIM) force in a challenging and realistic operational environment of 2028; and (3) develop future strategic readiness and interoperability in the JIM warfighting team.

Prototyping events are coordinated with CFTs and other Industry and Academic partners and utilizes live, force on force prototype-based experiments to assess the operational relevance of developing technologies, refine initial Operational and Organizational concepts, and conduct early prototyping to retain current advantages over adversaries, accelerate investments on contested future capabilities, and mitigate risk to the force.

FY 2024 Plans:

FY24 funding enables FCC/USAJMC to lead the Joint Warfighting Assessment (JWA), Project Convergence, 4 x Army Focused Warfighting Experiment (AFWE) assessments (AEWE, Cyber Quest, MSSPIX, MFIX), and other Live Field Experimentation activities.

Resources 2 x FTEs in support of the Joint Test Element, 27 CMEs, and travel associated with assigned experimentation event travel. FY24 experiments will continue to address concept and capability developments including integration of capabilities for all BCT types; development of future DOTMLPF requirements and solutions; and acceleration and integration of capabilities for current force BCT's and above brigade.

JMC executes PC24 IAW Army priorities to aggressively advance solutions in the areas of people, weapons systems, command and control, information, and terrain, and integrates the Army's contribution to Joint All Domain Operations. Through experimentation and learning, PC24 helps ensure that the Army has the right people, with the right systems, appropriately enabled, in the right places to support the Joint fight.

JMC executes JWA 24 as the annual capstone force modernization exercise for the U.S. Army. JWA 24 will integrate and assess Multi Domain Operations (MDO) concepts, capabilities, and formations at echelon (BCT to Theater Army/CJTF); (2) train a Joint, Interagency, and Multinational (JIM) force in a challenging and realistic operational environment; and (3) develop future strategic readiness and interoperability in the JIM warfighting team.

In FY24, the JTE continues to generate operational solutions to urgent, specific Joint Warfighter problems through a short-term rigorous test program process.

FY 2024 to FY 2025 Increase/Decrease Statement:

FY 2023	FY 2024	FY 2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 312 / <i>Army/Joint Experimentation</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>In FY 2025, \$21.500 million realigned from Project 312: Army/Joint Experimentation to Project PC1: Project Convergence (PC) and \$15.013 million moved within Project 312 to new task title: Experimentation - AFWE - High-Fidelity Live-Virtual-Constructive Experiments and Simulation-Based Experiments.</p> <p>Title: Experimentation - AFWE - High-Fidelity Live-Virtual-Constructive Experiments and Simulation-Based Experiments</p> <p>Description: Experiments address concept and capability developments including integration of capabilities for all Brigade Combat Team (BCT) types; development of future DOTMLPF requirements and solutions; and acceleration and integration of capabilities for current force BCTs and above brigade.</p> <p>The Joint Warfighting Assessment (JWA) is the annual capstone force modernization exercise for the U.S. Army. JWA is designed to achieve an enduring three-fold purpose: (1) accelerate force modernization by integrating and assessing Multi Domain Operations (MDO) concepts, capabilities, and formations at echelon (BCT to Theater Army/CJTF); (2) train a Joint, Interagency, and Multinational (JIM) force in a challenging and realistic operational environment of 2028; and (3) develop future strategic readiness and interoperability in the JIM warfighting team.</p> <p>Prototyping events are coordinated with CFTs and other Industry and Academic partners and utilizes live, force on force prototype-based experiments to assess the operational relevance of developing technologies, refine initial Operational and Organizational concepts, and conduct early prototyping to retain current advantages over adversaries, accelerate investments on contested future capabilities, and mitigate risk to the force.</p> <p>FY 2025 Plans: FY25 funding enables FCC/USAJMC to lead the Joint Warfighting Assessment (JWA), 4 x Army Focused Warfighting Experiment (AFWE) assessments (AEWE, Cyber Quest, MSSPIX, MFIX), other Live Field Experimentation activities and Simulation-Based Experiments (SIMEX).</p> <p>Resources 2 x FTEs in support of the Joint Test Element, 27 CMEs, and travel associated with assigned experimentation event travel. FY25 experiments will continue to address concept and capability developments including integration of capabilities for all BCT types; development of future DOTMLPF requirements and solutions; and acceleration and integration of capabilities for current force BCT's and above brigade.</p> <p>JMC executes JWA 25 as the annual capstone force modernization exercise for the U.S. Army. JWA 25 will: (1) integrate and assess Multi Domain Operations (MDO) concepts, capabilities, and formations at echelon (BCT to Theater Army/CJTF); (2) train a Joint, Interagency, and Multinational (JIM) force in a challenging and realistic operational environment; and (3) develop future strategic readiness and interoperability in the JIM warfighting team.</p>		-	-	15.061

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 312 / <i>Army/Joint Experimentation</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
In FY25, the JTE continues to generate operational solutions to urgent, specific Joint Warfighter problems through a short-term rigorous test program process. <i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase for administrative title change to provide further clarity on the AFWE, JWA, and other Live Field Experimentation activities.			
Accomplishments/Planned Programs Subtotals	33.678	35.982	15.061

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>				Project (Number/Name) 317 / <i>Current Force Capability Gaps</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
317: <i>Current Force Capability Gaps</i>	-	49.970	59.555	50.041	-	50.041	48.962	49.422	55.967	56.527	0.000	370.444
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project enables the Army to develop, integrate and help synchronize capability requirements and solutions into the operational force to meet the Army's goal to deliver Army 2030 and Design Army 2040. Funding ensures that the Warfighter is independently represented by, complementing the materiel and non-materiel developers, providing total capability management that integrates all doctrine, organization, training, materiel, leadership and education, personnel, and facilities (DOTMLPF) considerations. This project provides resources to execute Capability Development and Integration Directorate (CDID) Battle Lab experimentation, assessments and analysis addressing the Army's most significant modernization challenges. The Army plans and conducts experiments to gain insights and recommendations in the development of integrated concepts and requirements to inform Army Senior Leader modernization decisions through the results of a rigorous Campaign of Learning. Funding in this project enables maintenance of the Army Capability- based Architecture Development and Integration Environment (ArCADIE) providing storage, accessibility, production, and certification of authoritative architecture data and supporting systems. ArCADIE enables the process to develop, verify and validate operational architecture for eight major BCT formations.

Funding in FY24 ensures continuation of requirement determination, documentation, and integration. This will include areas of Maneuver, Soldier, Robotic, and Engineer capability development, Air Defense and Artillery formations, Sustainment watercraft and maneuver support vehicles, intelligence systems and sensors, and Cyber Army Capability Managers (ACM) areas of Cyberspace, Networks and Services, Electromagnetic Spectrum Operations and Tactical Radios. Cyber ACMs provide support to the Army's Cyber priorities and Cross Functional Team efforts. Funding ensures highly technical requirements development expertise for the Multi-Domain Task Force (MDTF). This ensures use of highly technical expertise to provide quick-response systems engineering support for Multi Domain Operations, MDTF, and other high-priority study areas.

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

	FY 2023	FY 2024	FY 2025
Title: Requirements Determination	22.165	34.769	30.860
Description: This accomplishment is a renaming of previous CDID/ACM JCIDS Requirements Documentation accomplishment to update organizational names and terminology.			
The AFC/FCC team facilitates requirements determination in coordination with the Joint Requirements Oversight Council (JROC) and in coordination with the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA(ALT)), which directs and ensures Milestone acquisition decisions are formally staffed and fully integrated across the Future Force Modernization Enterprise. Funding ensures AFC/FCC serves as the voice of the warfighter and compliments the materiel developer in providing total capability management ensuring the integration of all DOTMLPF solutions.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 317 / <i>Current Force Capability Gaps</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> Funding in FY24 ensures continuation of requirement determination, documentation and integration in support of all FCC CDIDs. This will include areas of Soldier and Robotic development, Air Defense and Artillery formations, Sustainment watercraft and maneuver support vehicles, and Cyber Army Capability Managers (ACM) areas of Cyberspace, Networks and Services, Electromagnetic Spectrum Operations and Tactical Radios. Cyber ACMs provide support to the Army's Cyber priorities and Cross Functional Team efforts. Funding ensures highly technical requirements development expertise for the Multi-Domain Task Force (MDTF). This ensures use of highly technical expertise to provide quick-response systems engineering support for Multi Domain Operations, MDTF, and other high-priority study areas.</p> <p><i>FY 2025 Plans:</i> Funding in FY25 ensures continuation of requirement determination, documentation, and integration in support of all FCC CDIDs. This will include areas of Maneuver, Soldier, Robotic, and Engineer capability development, Air Defense and Artillery formations, Sustainment watercraft and maneuver support vehicles, intelligence systems and sensors, and Cyber Army Capability Managers (ACM) areas of Cyberspace, Networks and Services, Electromagnetic Spectrum Operations and Tactical Radios. Cyber ACMs provide support to the Army's Cyber priorities and Cross Functional Team efforts. Funding ensures highly technical requirements development expertise for the Multi-Domain Task Force (MDTF). This ensures use of highly technical expertise to provide quick-response systems engineering support for Multi Domain Operations, MDTF, and other high-priority study areas.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Decrease in funding due to System of Systems Enhanced Small Unit (SESU) funds being no longer needed in FY25 due to requirement being satisfied.</p>			
<p><i>Title:</i> Army Focused Warfighting Experiments (AFWE)</p> <p><i>Description:</i> This accomplishment is a renaming of the above Accelerated Capabilities Development accomplishment to update mission and terminology.</p> <p>AFWE evolved from formerly known Army Live Prototyping Assessments. AFWE is full spectrum experimentation that examines new and innovative concepts and capabilities to support the Army's Force Design efforts to achieve the Army of 2040 as well as Combined Arms Center's Force Development equities to achieve the Army 2030. AFWE focuses beyond just materiel solutions by also looking at new organization designs, and how to fight tactics, techniques, and procedures to better inform development of the Army 2040. AFWE planning and event proposals are aligned to and incorporated into Project Convergence use case planning.</p>	6.332	-	-
<p><i>Title:</i> Battle Lab Experimentation and Support</p>	17.050	18.133	18.514

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 317 / <i>Current Force Capability Gaps</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Funding allows CDID Battle Lab to execute experiments in support of Army modernization efforts. Experimentation informs concepts, requirements, material solutions, and DOTMLPF changes for critical capability gaps and informs Army Senior Leader modernization decisions through the results of rigorous deliberate learning. Experimentation enables the delivery of Army 2030 and identifies opportunities to modernize the Army of 2040.</p> <p>FY 2024 Plans: Funds provide FY24 CDID Battle Lab capacity in order for FCC to plan and execute experiments in order to refine and underpin concepts and requirements with analysis. Funds provide contracted functional SMEs, facilitation analysts, software and travel costs.</p> <p>FY 2025 Plans: Funding in FY25 ensures continuation of requirement determination, documentation, and integration in support of all FCC CDIDs. This will include areas of Maneuver, Soldier, Robotic, and Engineer capability development, Air Defense and Artillery formations, Sustainment watercraft and maneuver support vehicles, intelligence systems and sensors, and Cyber Army Capability Managers (ACM) areas of Cyberspace, Networks and Services, Electromagnetic Spectrum Operations and Tactical Radios. Cyber ACMs provide support to the Army's Cyber priorities and Cross Functional Team efforts. Funding ensures highly technical requirements development expertise for the Multi-Domain Task Force (MDTF). This ensures use of highly technical expertise to provide quick-response systems engineering support for Multi Domain Operations, MDTF, and other high-priority study areas.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase reflects planned lifecycle of the effort.</p>			
<p>Title: Army Capability-based Architecture Development and Integration Environment (ArCADIE)</p> <p>Description: ArCADIE is the Army's authoritative source for architecture data and supports the community of practice requirement. ArCADIE provides an environment into which applications, software, and new functionality can be integrated while preserving access and linkage to existing data and artifacts. It provides standardized tool sets and enables software license sharing to reduce costs. ArCADIE employs a federation strategy to provide one integrated data store, regardless of how and where data is stored, presented as one integrated data set. Stakeholders make extensive use of common core services within ArCADIE to eliminate redundancies and create efficiencies.</p> <p>FY 2024 Plans:</p>	0.408	0.653	0.667

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 317 / <i>Current Force Capability Gaps</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>ArCADIE will be maintained to enable Army futures Command to develop, verify and validate operational architecture for Army 2030 and 2040 Multi Domain Formations. It will continue to serve as the authoritative architecture data and supporting systems in accordance with DoD and DA Information Assurance and management standards.</p> <p>FY 2025 Plans: ArCADIE will be maintained to enable Army futures Command to develop, verify and validate operational architecture for fielding the Army 2030 and the Concept 2040 Multi Domain Formations. It will continue to serve as the authoritative architecture data and supporting systems in accordance with DoD and DA Information Assurance and management standards.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase reflects planned lifecycle of the effort.</p>			
<p>Title: System of Systems Enhanced Small Unit (SESU) Focused Assessments</p> <p>Description: SESU is an Army/DARPA, CSA-directed project to support experimentation and demonstration of capabilities for small units. The Army is responsible to develop and execute virtual and live experimentation to evaluate SESU concepts, Adaptive C2 software, innovative sensors and effectors.</p> <p>FY 2024 Plans: FY24 funds final planning and execution for a full scale SESU experiment, against a pacing threat, in a real world type scenario. This will be the culminating exercise for the SESU effort prior to scheduled transition to capabilities development of select systems. Meets CSA intent for SESU capability.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decreased funding due to requirement being no longer needed in FY25.</p>	4.015	6.000	-
Accomplishments/Planned Programs Subtotals	49.970	59.555	50.041

<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks test</p> <p>D. Acquisition Strategy N/A</p>
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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) 33B / <i>Soldier-Centered Analyses For Future Force</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
33B: <i>Soldier-Centered Analyses For Future Force</i>	-	0.020	0.014	-	-	-	-	-	-	-	0.000	0.034
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project will provide early application of human performance and human figure modeling tools in the development of Soldier-focused requirements to shape technology for Future Force development. Efforts include design analyses, constructive simulations, and Soldier-in-the-loop assessments to ensure that manpower requirements and workload and skill demands are considered, avoiding information and physical task overloads and taking optimum advantage of aptitudes, individual and collective training, and numbers of Soldiers for an affordable Future Force.

The cited work is consistent with the Strategic Planning Guidance, the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan, and the Defense Technology Area Plan (DTAP).

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

	FY 2023	FY 2024	FY 2025
Title: Manpower and Personnel Integration (MANPRINT)	0.020	0.014	-
Description: Provide dedicated modeling and analysis cell for early and accurate MANPRINT estimates to the U.S. Army Futures Command (AFC), DEVCOM and its Centers, The Research and Analysis Center, Schools and Centers of Excellence (CoEs), Army Test and Evaluation Command (ATEC) and other service laboratories.			
FY 2024 Plans: Will expand the digital library by developing 3D models of Soldier clothing and equipment items to perform early human figure modeling assessments of planned and/or prototypes of Army modernization platform designs and enhancements.			
FY 2024 to FY 2025 Increase/Decrease Statement: Effort completes under this Project in FY24.			
Accomplishments/Planned Programs Subtotals	0.020	0.014	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) PC1 / <i>Project Convergence (PC)</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
PC1: <i>Project Convergence (PC)</i>	-	-	-	21.543	-	21.543	21.973	22.413	22.860	23.317	0.000	112.106
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Project Convergence (PC) realigned from Project 312/ Army/Joint Experimentation to Project PC1/ Project Convergence within program element 0605326A (Concepts Experimentation Program) in FY2025.

A. Mission Description and Budget Item Justification

Army and Joint Experimentation supports current and future concepts and capabilities involving Soldiers and Leaders within live, virtual, and constructive environments by exploring concepts, capability, and formation requirements, and solutions across Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) domains. The purpose of these efforts is to learn and mitigate risk for current and future forces. Experiments and multi-scale assessments inform Army future concepts and assess high-risk conceptual assumptions in order to focus required capabilities, formations and represent user requirements in the future Army. These experiments are included in the Army's new campaign of learning based on a continuous, structured series of demonstrations and experiments called "Project Convergence" (PC). Army experiments use the combined resources of Joint Services, Army Battle Laboratories, Capability Development Integration Directorate's (CDID), Cross Functional Teams (CFT) operating force units, research laboratories, materiel developers, industry, and academia to collaborate in the development, refinement, and assessment of future force concepts, capabilities and formations at echelon. Capstone is the singular, periodic experiment that pulls together concepts, technology, requirements, and gaps and directly applies them to the 2040 battlefield. In support of the Army Vision and Army Modernization Strategy, experimentation focuses on the latest Multi-Domain Operations (MDO) Concept, operational and organizational concepts for the Army to field the Army of 2030 and modernize Army of 2040.

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

	FY 2023	FY 2024	FY 2025
Title: Project Convergence	-	-	21.543
Description: Project Convergence is the Army's campaign of learning designed to aggressively advance solutions in the areas of people, weapons systems, command and control, information, and terrain, and integrates the Army's contribution to Joint All Domain Operations. PC is a Secretary of the Army priority for Live Prototyping Experimentation in support of the AimPoint Force. Through experimentation and learning, PC helps ensure that the Army has the right people, with the right systems, appropriately enabled, in the right places to support the Joint fight. Project Convergence ensures the Joint and Multinational force can rapidly and continuously integrate or converge effects across all domains through intelligence gathering, data sharing, interoperable systems to decide and act more rapidly against adversaries in competition and conflict. PC includes multiple experiments, including Capstone. Capstone is the event that brings everything together to help refine the understanding of 2040 and 2030.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / <i>Concepts Experimentation Program</i>	Project (Number/Name) PC1 / <i>Project Convergence (PC)</i>

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

Joint Modernization Command (JMC) executes PC/Capstone IAW Army priorities to aggressively advance solutions in the areas of people, weapons systems, command and control, information, and terrain, and integrates the Army's contribution to Joint All Domain Operations. Through experimentation and learning, PC/Capstone helps ensure that the Army has the right people, with the right systems, appropriately enabled, in the right places to support the Joint fight. Project Convergence ensures the Joint and Multinational force can rapidly and continuously integrate or converge effects across all domains through intelligence gathering, data sharing, interoperable systems to decide and act more rapidly against adversaries in competition and conflict.

PC/Capstone is part of the Army's intent to achieve a full Multi-Domain Operations (MDO) capability by 2035. PC/Capstone experiments on ways to defeat our pacing threat in the Indo-Pacific and the five key functions the Army performs in this theater: building and defending bases, command and control for Combined Joint Force (CJF), sustaining logistical supply lines, defensive fires through long-range precision strikes, and counter-attack forces. In addition, PC/Capstone experiments against near-peer adversary in adversary in the European theater, against which the CJF demonstrates pulsed operations to enable a land-centric, exploitation. PC/Capstone focuses on Army 2040 with the immediate need to integrate select technologies into Army 2030 to keep the Army ahead of our peers and on the leading edge of development. This PE provides funding for Defender, Forager, MDO Live. These experiments help the Army evaluate emerging concepts, new formations, integrate new technologies, and promote interoperability between the Army, other services and multinational partners.

FY 2024 to FY 2025 Increase/Decrease Statement:

FY 2025 increase due to realignment from Project 312/ Army/Joint Experimentation to Project PC1/ Project Convergence.

FY 2023	FY 2024	FY 2025
Accomplishments/Planned Programs Subtotals		
-	-	21.543

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

N/A

Remarks

N/A

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605502A / <i>Small Business Innovative Research</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	382.638	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	382.638
861: <i>SMALL BUS TECH - AMC</i>	-	47.175	-	-	-	-	-	-	-	-	0.000	47.175
M40: <i>SMALL BUSINESS-AMC</i>	-	335.463	-	-	-	-	-	-	-	-	0.000	335.463

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program is a United States Government program, coordinated by the Small Business Administration, in which 3.2% of the total extramural research budgets of all federal agencies with extramural research budgets in excess of \$100 million are reserved for contracts or grants to small businesses. A similar program, the Small Business Technology Transfer Program (STTR), uses a similar approach to the SBIR program to expand public/private sector partnerships between small businesses and nonprofit U.S. research institutions, and is currently funded at .45% of the relevant agencies' extramural research budgets.

There is no Fiscal Year (FY) 2024 or FY 2025 budget programming for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR). Funds for SBIR / STTR are redistributed in the year of execution from across the Army Research, Development, Test & Evaluation portfolio.

This Program Element is used exclusively to account for SBIR / STTR program funding in the year of execution.

B. Program Change Summary (\$ in Millions)	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	382.638	0.000	0.000	-	0.000
Total Adjustments	382.638	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	382.638	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605502A / <i>Small Business Innovative Research</i>	Project (Number/Name) 861 / <i>SMALL BUS TECH - AMC</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
861: <i>SMALL BUS TECH - AMC</i>	-	47.175	-	-	-	-	-	-	-	-	0.000	47.175
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) program is a United States Government program, coordinated by the Small Business Administration, in which 3.2% of the total extramural research budgets of all federal agencies with extramural research budgets in excess of \$100 million are reserved for contracts or grants to small businesses. A similar program, the Small Business Technology Transfer Program (STTR), uses a similar approach to the SBIR program to expand public/private sector partnerships between small businesses and nonprofit U.S. research institutions, and is funded at present at .45% of the relevant agencies' extramural research budgets.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605502A / <i>Small Business Innovative Research</i>	Project (Number/Name) M40 / <i>SMALL BUSINESS-AMC</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M40: <i>SMALL BUSINESS-AMC</i>	-	335.463	-	-	-	-	-	-	-	-	0.000	335.463
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (or SBIR) program is a United States Government program, coordinated by the Small Business Administration, in which 3.2% of the total extramural research budgets of all federal agencies with extramural research budgets in excess of \$100 million are reserved for contracts or grants to small businesses. A similar program, the Small Business Technology Transfer Program (STTR), uses a similar approach to the SBIR program to expand public/private sector partnerships between small businesses and nonprofit U.S. research institutions, and is funded at present at .45% of the relevant agencies' extramural research budgets.

There is no Fiscal Year (FY) 2024 or FY 2025 budget programming for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR). Funds for SBIR / STTR are redistributed in the year of execution from across the Army Research, Development, Test & Evaluation portfolio.

This Program Element is used exclusively to account for SBIR / STTR program funding in the year of execution.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605601A / <i>Army Test Ranges and Facilities</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	414.662	439.118	461.085	-	461.085	453.452	448.224	452.389	456.885	0.000	3,125.815
F30: <i>Army Test Ranges & Facilities</i>	-	414.662	375.008	401.712	-	401.712	394.015	388.711	392.799	396.699	0.000	2,763.606
WD1: <i>West Desert Test Center</i>	-	-	64.110	59.373	-	59.373	59.437	59.513	59.590	60.186	0.000	362.209

A. Mission Description and Budget Item Justification

This Program Element (PE) provides the institutional funding required to operate developmental test activities in accordance with Public Law 107-314 (National Defense Authorization Act for Fiscal Year 2003) Section 232 ("Objective for institutional funding of test and evaluation facilities") in support of Department of Defense (DoD) Program Executive Officers, Program and Product Managers, Research, Development, and Engineering Centers and to the Army Futures Command (AFC). Resources provided by this PE operate eight elements of the DoD Major Range and Test Facility Base (MRTFB): White Sands Test Center (WSTC) - White Sands Missile Range (WSMR), New Mexico; Aberdeen Test Center (ATC) - Aberdeen Proving Ground (APG), Maryland; Electronic Proving Ground (EPG) - Fort Huachuca, Arizona; Yuma Test Center (YTC) - Yuma Proving Ground (YPG), Arizona; Cold Regions Test Center (CRTC) - Fort Greely, Alaska; Tropic Regions Test Centers (TRTC) at various locations; and West Desert Test Center (WDTC) and Bio Testing Division (BTD) at Dugway Proving Ground (DPG), Utah. This PE also funds the Army's test capability at Redstone Test Center (RTC) - Redstone Arsenal, Alabama.

This PE finances the overhead (institutional) test operating costs not billable to DoD test customers per DoD Instruction (DoDI) 3200.18 and DoD Financial Management Regulation (DoDFMR) 7000.14-R, which include: recurring test infrastructure/capability sustainment requirements; replacement of test equipment; test operating procedures; and test revitalization/upgrade projects to maintain \$8.6 billion of testing capabilities; and improvements to the safety, environmental protection, and efficiency of test operations. The test capabilities at these ranges have been uniquely established and are designated as national assets needed to support test and evaluation (T&E) requirements of funded acquisition programs, and are required to assure technical performance, adherence to safety requirements, reliability, logistics supportability, Title 10 Live Fire Test and Evaluation, transportability, environmental effects, cyber, electromagnetic effects, and quality of materiel in development and in production.

This PE sustains the T&E capability required to support Army Modernization as well as other Army, Joint, or Other Service systems, materiel, and technologies. Types of systems scheduled for testing include, but are not limited to: Aircraft, Air Delivery, Unmanned Aerial Systems, Counter Unmanned Aerial Systems, Air and Missile Defense Systems, Engineering Equipment, Direct fire, Indirect fire, Ammunition, Automotive Systems both manned and unmanned, Intelligence Surveillance and Reconnaissance, Ground Soldier Systems, Missiles, Rockets, Mission Command Network, Tactical Command, Control, and Communications, Robotics/Unmanned Autonomous Systems, Soldier Lethality, Assured Position, Navigation and Timing, Title 10 Live-Fire Survivability, Nuclear survivability, directed energy, and extreme natural environments. These T&E capabilities enable Army Futures Command modernization efforts and readiness.

This funding line supports testing of Army Modernization Priority Programs.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605601A / <i>Army Test Ranges and Facilities</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	417.567	439.118	461.129	-	461.129
Current President's Budget	414.662	439.118	461.085	-	461.085
Total Adjustments	-2.905	0.000	-0.044	-	-0.044
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.562	-			
• SBIR/STTR Transfer	-0.343	-			
• Adjustments to Budget Years	-	-	-0.044	-	-0.044

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

Project: F30: *Army Test Ranges & Facilities*

Congressional Add: *Environmental Characterization for Test Operations*

Congressional Add: *Enterprise Enabled Multi Domain Operations (EEMDO) Cyber Testing*

Congressional Add Subtotals for Project: F30

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	4.000	-
	12.000	-
Congressional Add Subtotals for Project: F30	16.000	-
Congressional Add Totals for all Projects	16.000	-

Change Summary Explanation

Funding decrease reflects a slight change in overall civilian pay funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities				Project (Number/Name) F30 / Army Test Ranges & Facilities			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
F30: Army Test Ranges & Facilities	-	414.662	375.008	401.712	-	401.712	394.015	388.711	392.799	396.699	0.000	2,763.606
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides the institutional funding required to operate developmental test activities IAW Public Law 107-314 (National Defense Authorization Act for Fiscal Year 2003) Section 232 ("Objective for institutional funding of test and evaluation facilities") in support of DoD Program Executive Officers, Program and Product Managers, Research, Development, and Engineering Centers and to the AFC. Resources provided by this Project operate six elements of the DoD MRTFB: WSTC - WSMR, New Mexico; ATC - APG, Maryland; EPG - Fort Huachuca, Arizona; YTC - YPG, Arizona; CRTC - Fort Greely, Alaska; and TRTC at various locations. This Project also funds the Army's test capability at RTC - Redstone Arsenal, Alabama.

This Project finances the overhead (institutional) test operating costs not billable to DoD test customers per DoDI 3200.18 and DoDFMR 7000.14-R, which include: recurring test infrastructure/capability sustainment requirements; replacement of test equipment; test operating procedures; test revitalization/upgrade projects to maintain \$8.6 billion of testing capabilities; and improvements to the safety, environmental protection, and efficiency of test operations. The test capabilities at these ranges have been uniquely established, are considered national assets, and are in place to support T&E requirements of funded acquisition programs, and are required to assure technical performance, adherence to safety requirements, reliability, logistics supportability, Title 10 Live Fire Test and Evaluation, transportability, environmental effects, cyber, electromagnetic effects, and quality of materiel in development and in production.

This Project sustains the T&E capability required to support Army Modernization as well as other Army, Joint, or Other Service systems, materiel, and technologies. Types of systems scheduled for testing include, but are not limited to: Aircraft, Air Delivery, Unmanned Aerial Systems, Counter Unmanned Aerial Systems, Air and Missile Defense Systems, Engineering Equipment, Direct fire, Indirect fire, Ammunition, Automotive Systems both manned and unmanned, Intelligence Surveillance and Reconnaissance, Ground Soldier Systems, Missiles, Rockets, Mission Command Network, Tactical Command, Control, and Communications, Robotics/Unmanned Autonomous Systems, Soldier Lethality, Assured Position, Navigation and Timing, Title 10 Live-Fire Survivability, Nuclear survivability, directed energy, and extreme natural environments. These T&E capabilities enable Army Futures Command modernization efforts and readiness.

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

	FY 2023	FY 2024	FY 2025
Title: Mission Support	86.777	101.224	109.395
Description: Funds support: test capability sustainment and maintenance of equipment, test facility maintenance, calibration requirements, handling and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, test support vehicle maintenance, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing and reproduction, communications, land leases, and range road maintenance. Funding supports			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>indirect costs for MRTFB Activities (ATC, EPG, WSTC, YTC (including CRTC & TRTC)) IAW DoDI 3200.18 and DoDFMR 7000.14-R.</p> <p>FY 2024 Plans: Funds will continue to support test capability sustainment and maintenance of equipment, test facility maintenance, calibration requirements, handling and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, test support vehicle maintenance, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing and reproduction, communications, land leases, and range road maintenance. Funding supports indirect costs for MRTFB Activities (ATC, EPG, WSTC, YTC (including CRTC & TRTC)) IAW DODI 3200.18 and DODFMR 7000.14-R.</p> <p>FY 2025 Plans: Funds will continue to support test capability sustainment and maintenance of equipment, test facility maintenance, calibration requirements, handling and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, test support vehicle maintenance, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing and reproduction, communications, land leases, and range road maintenance. Funding supports indirect costs for MRTFB Activities (ATC, EPG, WSTC, YTC (including CRTC & TRTC)) IAW DODI 3200.18 and DODFMR 7000.14-R.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding will support sustainment of test capabilities which will enable ATEC to focus on ensuring test capabilities remain viable and ready to support future Army priorities.</p>				
<p>Title: T&E Civilian Pay</p> <p>Description: This funding supports the overhead costs of the civilian labor for Program Budget Guidance (PBG) authorizations. The balance is customer funded. The test customer pays all direct costs that are directly attributable to the use of a test facility or resource for testing of a particular program. Funding is essential to maintain core T&E skills as part of the Government civilian workforce used in support of Army modernization.</p> <p>FY 2024 Plans: Funds will continue to support the overhead costs of the civilian labor for PBG authorizations. The balance will be customer funded. The test customer will pay all direct costs directly attributable to the use of a test facility or resource for testing of a particular program. Funding will be essential to maintain core T&E skills as part of the Government civilian workforce.</p> <p>FY 2025 Plans:</p>		175.681	179.338	182.616

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Funds will continue to support the overhead costs of the civilian labor for PBG authorizations. The balance will be customer funded. The test customer will pay all direct costs directly attributable to the use of a test facility or resource for testing of a particular program. Funding will be essential to maintain core T&E skills as part of the Government civilian workforce.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to economic assumptions</p>				
<p>Title: Contractor Support</p> <p>Description: This funding supports contractor labor costs not billable to customers. Contract labor is essential to augment core civilian T&E personnel with additional capabilities and/or capacity. Functions performed include range operations, automotive test support, radar maintenance, warehousing support, project management, maintenance of support fleet aircraft, recurring/general maintenance to test facilities and data acquisition support. For some skillsets, there are no government civilians performing the work.</p> <p>FY 2024 Plans: Funds will continue to support contractor labor costs not billable to the customer. Contract labor will be essential to augment core civilian T&E personnel. Functions performed will include range operations, automotive test support, radar maintenance, warehousing support, project management, maintenance of support fleet aircraft, recurring/general maintenance to test facilities and data acquisition support.</p> <p>FY 2025 Plans: Funds will continue to support contractor labor costs not billable to the customer. Contract labor will be essential to augment core civilian T&E personnel. Functions performed will include range operations, automotive test support, radar maintenance, warehousing support, project management, maintenance of support fleet aircraft, recurring/general maintenance to test facilities and data acquisition support.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease reflects adjustments in the contractor workforce to focus on only Army priority workload in future years.</p>		59.225	44.424	39.331
<p>Title: Revitalization/Upgrade</p> <p>Description: Funds support the revitalization/upgrade of critical test infrastructure and capabilities. MRTFB elements are required to use institutional funding to sustain, upgrade or create capabilities that support multiple customers. Funding will be focused on improving T&E capabilities for Army Modernization Programs and other high priority acquisition systems.</p> <p>FY 2024 Plans:</p>		20.832	5.000	11.937

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Funds will continue to support the revitalization/upgrade of critical test infrastructure and capabilities. MRTFB elements will be required to use institutional funding to sustain or upgrade capabilities that support multiple customers. Funding will be focused on improving T&E capabilities for the highest priority Army modernization efforts such as Air and Missile Defense (AMD), Long Range Precision Fires (LRPF), Assured Position, Navigation, and Timing (APNT), Future Vertical Lift (FVL), and Unified Network.</p> <p>FY 2025 Plans: Funds will continue to support the revitalization/upgrade of critical test infrastructure and capabilities. MRTFB elements will be required to use institutional funding to sustain or upgrade capabilities that support multiple customers. Funding will be focused on improving T&E capabilities for the highest priority Army modernization efforts such as Air and Missile Defense (AMD), Long Range Precision Fires (LRPF), Assured Position, Navigation, and Timing (APNT), Future Vertical Lift (FVL), and Unified Network.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase to support sustainment of critical test infrastructure and capabilities.</p>			
<p>Title: Physical Security Guards and Equipment</p> <p>Description: Funding supports security guard forces mandated by regulations and annual vulnerability assessments for ATEC's surety-related test sites which are positioned on isolated and remote locations. Funding supports required training and exercises, to include annual vulnerability assessments and guard force support to Nuclear Accident or Incident Response and Assistance (NAIRA) and Chemical Incident/Mishap Response and Assistance (CIMRA). These guards secure and protect ATEC's Fast Burst Nuclear Reactor (FBR) at White Sands Test Center (WSTC) located at White Sands Missile Range (WSMR) IAW Army Regulation (AR) 190-54 (Security of Nuclear Reactors and Special Nuclear Materials). The guards also secure and protect the Chemical and Biological (Chem/Bio) facilities at West Desert Test Center (WDTC) located at Dugway Proving Ground (DPG) IAW AR 190-59 (Chemical Agent Security Program) and AR 190-17 (Biological Agents and Toxins Security Program). These surety facilities maintain chemical, biological, radiological, nuclear, and explosive (CBRNE) materials and agents in order to test the effects and effectiveness of defensive or protective equipment and measures. Physical security equipment consists of electronic security systems (ESS) composed of access/egress control systems, various camera systems, sensors and detection arrays, and Intrusion Detection Systems (IDS). Costs include sustainment of maintenance contracts for equipment not included in the Army inventory. This equipment is necessary to secure arms rooms, ammunition, explosives (AA&E) storage facilities at the FBR, and Chem/Bio surety sites. Physical security equipment is critical to maintain current security requirements as directed in: AR 190-54, AR 190-56, AR 190-59, AR 190-17, AR 190-11, AR 190-13, and AR 190-51. Funding enables ATEC to sustain support to Army Modernization and its expanded requirements to include large increases in volume of test planning and test. Additionally, funding addresses increases in physical security and guard force requirements in support of ATEC's assignment of direct support mission to Army Futures Command (AFC) and associated requirements to include support to major exercises including Project Convergence and EDGE. Funding provides training and certification of guards to operate and maintain ESS equipment and</p>	10.425	10.459	13.393

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>qualification of all weapon systems and surety-related personal protective equipment (PPE) requisite to their surety security missions.</p> <p>FY 2024 Plans: Funds will support physical security guard operations, mandatory training, qualifications and for maintenance and sustainment of weapons, GSA leased vehicles, communications, and ESS equipment at the FBR at WSTC located at WSMR and Chemical/Biological facilities at WDTC located at DPG. Funding supports Army priorities shift to modernization and associated expansion of test mission and support to AFC-led RDT&E major events.</p> <p>FY 2025 Plans: Funds will support physical security guard operations, mandatory training, qualifications and for maintenance and sustainment of weapons, GSA leased vehicles, communications, and ESS equipment at the FBR at WSTC located at WSMR and Chemical/Biological facilities at WDTC located at DPG. Funding supports Army priorities shift to modernization and associated expansion of test mission and support to AFC-led RDT&E major events.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to adjustments within the security guard requirement.</p>				
<p>Title: UH-60 Aircraft</p> <p>Description: This funding supports the Aviation Restructure Initiative endorsed by the SECDEF. Funding supports aircraft maintenance, aircrew labor, mandatory training, and aircraft flying hours. IAW DoDI 3200.18 and DoDFMR 7000.14-R, these costs are not billable to the test customers. UH-60 helicopters are used to provide essential logistical, sensor platform and aerial photo/video documentation support for developmental testing. Funds will continue to support UH-60 helicopter maintenance, aircrew labor, mandatory training, and aircraft flying hours.</p> <p>FY 2024 Plans: Funds will continue to support UH-60 helicopter maintenance, aircrew labor, mandatory training and aircraft flying hours.</p> <p>FY 2025 Plans: Funds will continue to support UH-60 helicopter maintenance, aircrew labor, mandatory training and aircraft flying hours.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase reflects planned lifecycle of the effort.</p>		7.693	8.912	9.288
<p>Title: Network Enterprise Center (NEC)</p>		14.084	14.167	14.450

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: This funding supports the NEC operations for WSMR and YPG. Funding supports manpower and contracts, support equipment and associated costs specifically identified and measurable to plan, manage, coordinate, and execute Communication, Network, and Information Technology Services Management.</p> <p>FY 2024 Plans: Funds will continue to support all labor, support equipment, and training required for the NEC operations at WSMR and YPG.</p> <p>FY 2025 Plans: Funds will continue to support all labor, support equipment, and training required for the NEC operations at WSMR and YPG.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to economic assumptions.</p>			
<p>Title: Cybersecurity Service Provider (CSSP)</p> <p>Description: This requirement supports compliance with DoD Directive (DoDD) 8530.1 and DoDI, which directed that all component information systems and computer networks be assigned to a certified CSSP and that all information systems and computer networks must enter into a service agreement with a CSSP. United States (U.S.) Army Cyber Command (ARCYBER) Operations Order (OPORD) 2014-224 directed all Commands/Direct Reporting Units (DRU) to take immediate measures to ensure Army assets connected to Defense Research and Engineering Network (DREN) and Secure Defense Research and Engineering Network (SDREN) enclaves are aligned with the U.S. Army Research Laboratory as their CSSP to ensure cyber defense oversight and information security continuous monitoring going forward.</p> <p>FY 2024 Plans: Funds will continue to support cyber defense oversight and continuous monitoring of information security.</p> <p>FY 2025 Plans: Funds will continue to support cyber defense oversight and continuous monitoring of information security.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to economic assumptions</p>	1.658	1.722	1.757
<p>Title: Military Construction (MILCON) Mission Unique Equipment (MUE)</p> <p>Description: MUE is defined as equipment that regulation identifies as "above standard" and necessary to fulfill the specific mission performed in the constructed new facility. MUE generally consists of personal property items that fall under the AR 420-1 definition of equipment-in-place and is not programmed into the MILCON. MUE funding includes procurement and installation of new equipment; and also costs to move existing equipment to be retained into newly constructed facilities. The standard process</p>	14.623	-	8.914

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
for MILCON programming is through the Army FIP process managed by AMC; however, ATEC has also had projects added directly through Congressional Legislation.				
<p>FY 2025 Plans: Funds will be used to procure and install mission essential equipment to support newly constructed projects in the MILCON program. Funding is essential to ensure new facilities have full operational capability to meet their intended purpose.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increased funding to support Military Systems Electromagnetic Test Support (MSETS) at Redstone Test Center.</p>				
<p>Title: MRTFB Organizational Logistics Activities</p> <p>Description: In FY20, Army policy changed requiring organizational logistics functions be funded by organizational units and not the Army Material Command's Logistics Readiness Centers (LRC). This funding supports those organizational logistics activities previously provided by LRCs to WSTC located at WSMR, YTC located at YPG and WDTC located at DPG. These activities provide a wide range of logistics support services including but not limited to asset management/property book support; equipment maintenance/ repair of ATEC owned maintenance significant items; small arms gaging and repair, dispatch of Army Owned/General Services Administration (GSA) vehicles and equipment; retail fuel support for vehicles and ground power generation equipment; 41 Code of Federal Regulations (CFR) Part 102-34 Subpart J - Federal Fleet Report performance data collected through the Federal Automotive Statistical Tool (FAST); ammunition quality assurance and surveillance; driver's licensing; and transportation support for inbound and outbound equipment, freight and cargo.</p> <p>FY 2024 Plans: Funds will support logistics activities providing support to WSTC located at WSMR, YTC located at YPG and WDTC located at DPG. These LRC activities provide a wide range of logistics support services including but not limited to asset management/property book support; equipment maintenance/repair of ATEC owned maintenance significant items; small arms gaging and repair, dispatch of Army Owned/GSA vehicles and equipment; forward fuel support for vehicles and ground power generation equipment; 41 CFR Part 102-34 Subpart J - Federal Fleet Report performance data collected through the Federal Automotive Statistical Tool (FAST); ammunition quality assurance and surveillance; equipment authorization and utilization reporting; and transportation support for inbound and outbound equipment, freight and cargo.</p> <p>FY 2025 Plans: Funds will support logistics activities providing support to WSTC located at WSMR, YTC located at YPG and WDTC located at DPG. These LRC activities provide a wide range of logistics support services including but not limited to asset management/property book support; equipment maintenance/repair of ATEC owned maintenance significant items; small arms gaging and repair, dispatch of Army Owned/GSA vehicles and equipment; forward fuel support for vehicles and ground power generation</p>		6.975	7.084	7.227

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
equipment; 41 CFR Part 102-34 Subpart J - Federal Fleet Report performance data collected through the Federal Automotive Statistical Tool (FAST); ammunition quality assurance and surveillance; equipment authorization and utilization reporting; and transportation support for inbound and outbound equipment, freight and cargo. FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to economic assumptions.				
Title: ARCYBER- C4IM Services Support to WSMR Description: 3 CMEs- Provide contract support (C4IM services) at WSMR to non-Defense Research and Engineering Network (DREN) customers IAW MOA with ATEC. Supports IMCS contract for touch labor. FY 2025 Plans: The Fort Bliss Network Enterprise Center (NEC) shall migrate users and services from the White Sands network to the Fort Bliss Network. Fort Bliss does not have enough storage and computing capacity to migrate all the Servers and User Data to Fort Bliss. The NEC requires additional storage and computing capacity to support these requirements. The system must integrate into the existing VMware platform, IFN architecture, and GFN architecture. FY 2024 to FY 2025 Increase/Decrease Statement: Increase reflects restoral of funding to support the Fort Bliss Network Enterprise Center.		0.395	-	0.139
Title: AMC / AFC Physical Security Officer Civ Pay Description: AMC / AFC Physical Security Officer Civ Pay FY 2024 Plans: AMC / AFC Physical Security Officer Civ Pay FY 2025 Plans: AFC / DEVCOM CBC Physical Security Officer Civ Pay		0.173	0.178	0.178
Title: Army Enterprise Business Systems (EBS) Consolidation - SOMARDS Financial Management Information System (SOFIMS) Description: The Army consolidated Enterprise Business Systems (EBS) under the Acquisition Domain. The consolidation resulted in the transfer of funding to support the SOMARDS Financial Management Information System (SOFIMS). SOFIMS is the system utilized by ATEC to manager contractor time in tracking completion of test and evaluation projects. It serves as a data entry portal for contractor and time and costs in the Army's General Fund Enterprise Business System (GFEBs).		0.121	-	-
Title: Four Dimensional Weather System (4DWX)		-	2.500	3.087

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) F30 / Army Test Ranges & Facilities

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Provides funding for sustainment and enhancement of the 4DWX system, an advanced meteorological support system that provides high-resolution weather forecasts and analyzes. The 4DWX analyzes and forecasts the 3-dimensional structure of the atmosphere over time (4th dimension) and is used in test planning, conduct, and forensic analyses.</p> <p>FY 2024 Plans: Provides funding for sustainment and enhancement of the 4DWX system, an advanced meteorological support system that provides high-resolution weather forecasts and analyzes. The 4DWX analyzes and forecasts the 3-dimensional structure of the atmosphere over time (4th dimension) and is used in test planning, conduct, and forensic analyses. The funding is used to improve forecast accuracy in support of Army RDTE mission requirements, including the development of a full-grid climatology using 4DWX analysis and further development of probabilistic modeling, data assimilation procedures, and configuration of 4DWX to optimize test range specific requirements.</p> <p>FY 2025 Plans: Provides funding for sustainment and enhancement of the 4DWX system, an advanced meteorological support system that provides high-resolution weather forecasts and analyzes. The 4DWX analyzes and forecasts the 3-dimensional structure of the atmosphere over time (4th dimension) and is used in test planning, conduct, and forensic analyses. The funding is used to improve forecast accuracy in support of Army RDTE mission requirements, including the development of a full grid climatology using 4DWX analysis and further development of probabilistic modeling, data assimilation procedures, and configuration of 4DWX to optimize test range specific requirements.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to adjustments in the sustainment requirement.</p>			
Accomplishments/Planned Programs Subtotals	398.662	375.008	401.712

	FY 2023	FY 2024
Congressional Add: Environmental Characterization for Test Operations	4.000	-
FY 2023 Accomplishments: Congressional Add for Environmental Characterization for Test Operations.		
Congressional Add: Enterprise Enabled Multi Domain Operations (EEMDO) Cyber Testing	12.000	-
FY 2023 Accomplishments: Congressional Add for Enterprise Enabled Multi Domain Operations (EEMDO) Cyber Testing.		
Congressional Adds Subtotals	16.000	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / <i>Army Test Ranges and Facilities</i>	Project (Number/Name) F30 / <i>Army Test Ranges & Facilities</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) WD1 / West Desert Test Center
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
WD1: West Desert Test Center	-	-	64.110	59.373	-	59.373	59.437	59.513	59.590	60.186	0.000	362.209
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides funding for the West Desert Test Center (WDTC) and Combat Capability Development Command (DEVCOM) Chemical and Biological Center BioTesting Division (BTD-CBC) MRTFB institutional technical and operational capability for testing DoD Chemical and Biological (CB) and Non-Traditional Agent (NTA) defense materiel, equipment, and systems from concept through production to include associated special operations Tactics, Techniques, and Procedures Development (TTPD) activities.

Efforts included in this Project are:

- (1) BTD-CBC
- (2) WDTC

Together WDTC and BTD-CBC are the reliance centers for all DoD CB defense testing and provide the United States' only combined range, chamber, toxic chemical lab, and bio-safety level 3 Biological Select Agent and Toxin (BSAT) aerosol test capability. This project funds the institutional and overhead costs to operate WDTC and BTD-CBC in compliance with the National Defense Authorization Act (NDAA) for FY03 (Public Law 107-314), Section 232, "Objective for institutional funding of test and evaluation facilities." Institutional operating costs were transferred to the consolidated OSD Chemical and Biological Defense Program consistent with Public Law 103-160 Section 1701. Those costs that are directly attributable to the use of WDTC and BTD-CBC for testing and TTPD activities under a particular program, over and above the institutional and overhead costs, are billed to the program.

WDTC and BTD-CBC use unique, state-of-the-art chemical and life-science test facilities and test chambers to perform CB defense testing of protective gear, decontamination systems, detectors, equipment, and non-materiel CB defense solutions while maintaining safety, security, and surety of chemical agents and biological pathogens. WDTC also provides surveyed and instrumented outdoor ranges and specialized structures for CB simulant agent dissemination in operationally threat-relevant environments and TTPD activities.

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

	FY 2023	FY 2024	FY 2025
Title: BioTesting Division (BTD-CBC) - MRTFB	-	8.613	7.477
Description: Funding maintains MRTFB test and evaluation test and evaluation (T&E) mission readiness at DEVCOM Chemical Biological Center (CBC) Bio Testing Division (BTD) for biological surety laboratory operations, bio-safety risk management, and defensive T&E mission support activities. Lothar Salomon Life Sciences Test Facility (LSTF) and Baker complex contains biosafety level (BSL) 1, 2, and 3 laboratories for testing biological weapons detectors, individual protective clothing and equipment, decontamination systems, and material survivability in a bioweapon contaminated environment. LSTF is the sole			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) WD1 / West Desert Test Center		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>DoD Facility Certified to challenge developmental defensive test equipment with aerosolized biological warfare agents, including bacteria, viruses, and biological toxins, in BSL-3 chambers. Represents the MRTFB activity's institutional and overhead costs which cannot be charged to DoD MRTFB users in compliance with DoDI 3200.18 and DoDFMR 7000.14-R.</p> <p>FY 2024 Plans: Fund essential T&E mission support activities (civilian labor, travel, training, communications, printing and reproduction, supplies, equipment acquisition, contract support, and purchased equipment maintenance) maintaining mission readiness of the bioweapons defense technical T&E capability. These activities are resourced in compliance with DoDI 3200.18 and DoDFMR 7000.14-R.</p> <p>FY 2025 Plans: Will provide for the institutional civilian labor to maintain core T&E skills as part of the MRTFB Government civilian workforce supporting the CBDP mission. Will fund sustainment of existing biological test instrumentation and equipment at BTD-CBC necessary for the safe operation of BSL 1/2/3 biological laboratories and chambers, biological field and simulant chambers, bio-safety risk management, and contractor labor. Will pay for annual service contracts for test equipment operations, diagnostics, calibration, and certification, as well as routine life cycle and use-related replacement of existing lab, field, T&E related administrative, and analytical instrumentation components and equipment. Will finance test facility maintenance, transportation, postage, laboratory and administrative supplies, tools, software, spare parts, temporary duty/training of civilian personnel, personnel certifications, printing, reproduction, and communications. Will continue to support indirect costs not chargeable to MRTFB users in compliance with DoDI 3200.18 and DoD FMR 7000.14-R.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding reflects planned lifecycle of this effort. FY25 program decrease reflects reduction for routine life-cycle replacement of T&E equipment refresh funded in FY24.</p>				
<p>Title: WDTC, MRTFB Civilian Pay</p> <p>Description: Supports civilian labor overhead costs for Program Budget Guidance (PBG) authorizations and the balance is customer funded. Test customers pay all costs directly attributable to the use of a test facility or resource for testing of a particular program. Funding is essential to maintain core T&E skills as part of the Government civilian workforce used in support of the Chemical Biological Defense Program (CBDP) mission. WDTC provides a specially trained support staff to operate and maintain all critical testing systems.</p> <p>FY 2024 Plans: Funds will support overhead costs of civilian labor for PBG authorizations, and the balance will be customer funded. Test customers will continue to pay all costs directly attributable to the use of a test facility or resource for testing of a particular</p>		-	29.373	27.788

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) WD1 / West Desert Test Center

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>program. Funding will remain essential to maintain core T&E skills as part of the Government civilian workforce used in support of the CBDP mission. WDTC will continue to provide a specially trained support staff to operate and maintain all critical testing systems.</p> <p>FY 2025 Plans: Funds will support overhead costs of civilian labor for PBG authorizations, and the balance will be customer funded. Test customers will continue to pay all costs directly attributable to the use of a test facility or resource for testing of a particular program. Funding will remain essential to maintain core T&E skills as part of the Government civilian workforce used in support of the CBDP mission. WDTC will continue to provide a specially trained support staff to operate and maintain all critical testing systems.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to revised recruitment, retention, and relocation requirements.</p>			
<p>Title: WDTC, MRTFB Mission Support</p> <p>Description: Provides for ongoing sustainment of existing chemical test instrumentation and equipment at WDTC necessary for chemical laboratories, chemical/biological field and simulant chamber, data science test mission readiness, and staff functions not chargeable to a test customer. Supports annual service contracts for test equipment operations, diagnostics, calibration, and certification, as well as routine life cycle and use-related replacement of existing field, test related administrative, and analytical instrumentation components and systems. Supports test facility maintenance, handling and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, mission unique installation costs, temporary duty/training of civilian and contractor personnel, personnel certifications, printing, reproduction, and communications. Funding supports indirect costs for MRTFB IAW DoDI 3200.18 and DoD FMR 7000.14-R.</p> <p>FY 2024 Plans: Funds will provide sustainment of existing test instrumentation and equipment at WDTC in support of operations to maintain mission readiness of chemical laboratories, chemical/biological field and simulant chamber capabilities of test data and staff functions not chargeable to a test customer. Support annual service contracts for equipment operation, diagnostics, and calibration, as well as a routine life cycle and use-related replacement of existing field, administrative, and analytical instrumentation components, and systems. Support test facility maintenance, handling, and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing, reproduction, and communications. Funds will continue to support indirect costs for MRTFB IAW DoDI 3200.18 and DoD FMR 7000.14-R.</p> <p>FY 2025 Plans:</p>	-	13.754	13.738

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / Army Test Ranges and Facilities	Project (Number/Name) WD1 / West Desert Test Center

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Funds will provide sustainment of existing test instrumentation and equipment at WDTC in support of operations to maintain mission readiness of chemical laboratories, chemical/biological field and simulat chamber capabilities of test data and staff functions not chargeable to a test customer. Support annual service contracts for equipment operation, diagnostics, and calibration, as well as a routine life cycle and use-related replacement of existing field, administrative, and analytical instrumentation components, and systems. Support test facility maintenance, handling, and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing, reproduction, and communications. Funds will continue to support indirect costs for MRTFB IAW DoDI 3200.18 and DoD FMR 7000.14-R.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY25 program decrease reflects reduction for routine life-cycle replacement of T&E equipment refresh funded in FY24.</p> <p>Title: WDTC, MRTFB Contractor Support</p> <p>Description: Supports contractor labor costs not billable to customers. Contract labor is essential to augment core civilian T&E personnel with additional capabilities and/or capacity as well as assist with the operation and maintenance of critical testing systems. Functions performed include chemical and biological analysis, field support, planning, report documentation as well as range operations, warehousing support, project management, recurring/general maintenance to test facilities and data acquisition support. For some skillsets, there are no government civilians performing the work.</p> <p>FY 2024 Plans: Funds will support contractor labor costs not billable to test customers. Contract labor is essential to augment core civilian T&E personnel with additional subject matter expertise, capabilities and/or capacity. Functions performed will include chemical and biological analysis, test field support, planning, and test report documentation as well as range operations, warehousing support, project management support, recurring/general maintenance to test facilities and data acquisition support.</p> <p>FY 2025 Plans: Funds will support contractor labor costs not billable to test customers. Contract labor is essential to augment core civilian T&E personnel with additional subject matter expertise, capabilities and/or capacity. Functions performed will include chemical and biological analysis, test field support, planning, and test report documentation as well as range operations, warehousing support, project management support, recurring/general maintenance to test facilities and data acquisition support.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Contract decrease due to contract re-compete.</p>	-	12.370	10.370
Accomplishments/Planned Programs Subtotals	-	64.110	59.373

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605601A / <i>Army Test Ranges and Facilities</i>	Project (Number/Name) WD1 / <i>West Desert Test Center</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605602A / <i>Army Technical Test Instrumentation and Targets</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	72.760	42.220	75.591	-	75.591	66.082	59.070	54.930	56.754	0.000	427.407
FJ3: <i>Technical Test Instrumentation & Targets</i>	-	72.760	42.220	75.591	-	75.591	66.082	59.070	54.930	56.754	0.000	427.407

A. Mission Description and Budget Item Justification

This funding line supports test and evaluation (T&E) of Army Modernization Priority Programs.

This Program Element (PE) provides critical front-end investments for development of: new test methodologies and standards; advanced test technology concepts; future T&E; advanced modeling, simulation and instrumentation prototypes; and full-scale development of T&E capabilities for the United States (U.S) Army Test and Evaluation Command (ATEC), which includes the Operational Test Command (OTC) at Ft Hood, Texas; Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; White Sands Test Center (WSTC) at White Sands Missile Range (WSMR), New Mexico; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; Yuma Test Center (YTC) at Yuma Proving Grounds (YPG), Arizona (including the Cold Regions Test Center (CRTC), Fort Greely, Alaska and the Tropics Regions Test Center (TRTC), at various locations); and Redstone Test Center (RTC), Redstone Arsenal, Alabama. OTC consists of four forward Test Directorates (Airborne and Special Operations Test Directorate, Fort Bragg, North Carolina; Air and Missile Defense Test Directorate, Fort Bliss, Texas; Fires Test Directorate, Fort Sill, Oklahoma; and the Intelligence Electronic Warfare Test Directorate, Fort Huachuca, Arizona) together with four other Test Directorates (Aviation; Maneuver; Mission Command; Maneuver Support and Sustainment) at Ft Hood, Texas. These T&E capabilities are required to support T&E requirements of Army signature modernization efforts to support development of Multi-Domain Operations (MDO)-capable Forces. These activities enable Army Futures Command (AFC) signature modernization efforts readiness and support the development and fielding cycle of all Army acquisition programs including rapid fielding initiatives and programs of record. Sustainment funding maintains existing T&E capabilities at all locations by replacing unreliable, uneconomical, obsolete, and irreparable instrumentation, as well as incremental upgrades of hardware and software for modeling, simulation, and instrumentation systems to assure adequate test data collection capabilities. This data supports acquisition milestone decisions for all test mission areas throughout the Army including programs such as the 105-mm Mobile Howitzer, 30mm/40mm ammunition, Active Protection System (APS), AH-64 Block III, APR-39C(V)1 Radar, Armored Multi-Purpose Vehicle (AMPV), Army Integrated Air-Missile Defense (AIAMD), Lower Tier Air and Missile Defense Sensor (LTAMDS), Army Tactical Missile System (ATACMS), CH-47F Chinook, Command Post Computing Environment (CPCE), Common Infrared Counter Measures (CIRCM), Counter Small Unmanned Aerial System (c-SUAS), Counter Rocket Artillery Mortar (C-RAM), Dismounted Assured PNT System (DAPS), Distributed Common Ground System - Army (DCGS-A), Capability Drop 2, Tactical Intelligence Targeting Access Node (TITAN), Precision Strike Missile (PrSM). Enhanced Night Vision Goggle- Binocular (ENVG-B), Expedient Leader Follower, Extended Range Cannon Artillery (ERCA), Family of Medium Tactical Vehicles (FMTV), Guided Multiple Launch Rocket System (GMLRS), Integrated Tactical Network (ITN), Javelin, Joint Air-to- Ground Missile (JAGM) for US Navy, Joint Assault Bridge (JAB), Joint Light Tactical Vehicle (JLTV), Leader Radio, M109A7 Paladin/M992A3, M1A2 Abrams, M-2/3 Bradley Expedited Active Protection System (ExAPS), M-2/3 Bradley Fist, M776 Chrome Tube, M777 Long Range Cannon, Maneuver Short Range Air Defense (M-SHORAD), ManPack (MP), Mounted Assured PNT System (MAPS), M10 Booker Combat Vehicle (BCV), Optionally Manned Fighting Vehicle, Patriot 3 (PAC-3), Precision Guidance Kit (PGK), Precision Strike Missile (PrSM), Robotic Combat Vehicle (RCV), Shadow Tactical Unmanned Aircraft System (TUAS), Stinger Shelf life Extension Program (SLEP), Stryker, Systems for Assured Position, Navigation and Timing (PNT), Terminal High-Altitude Area Defense (THAAD), UH-60M Black Hawk, and XM113. Also supports AFC and Army Signature Modernization efforts to include Project Convergence and PNT Assessment Exercise (PNTAX).

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605602A / <i>Army Technical Test Instrumentation and Targets</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	67.962	42.220	43.439	-	43.439
Current President's Budget	72.760	42.220	75.591	-	75.591
Total Adjustments	4.798	0.000	32.152	-	32.152
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	6.051	-			
• SBIR/STTR Transfer	-1.253	-			
• Adjustments to Budget Years	-	-	32.152	-	32.152

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

Project: FJ3: *Technical Test Instrumentation & Targets*

Congressional Add: *Rapid Assurance Modernization Program - Test (RAMP-T)*

	FY 2023	FY 2024
Congressional Add Subtotals for Project: FJ3	30.000	-
Congressional Add Totals for all Projects	30.000	-

Change Summary Explanation

Increased funding to support ATEC Test Capability Investments and ATEC Enterprise Test Data and Network Interoperability to Support Multi-Domain Environment (MDO).

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605602A / Army Technical Test Instrumentation and Targets				Project (Number/Name) FJ3 / Technical Test Instrumentation & Targets			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FJ3: Technical Test Instrumentation & Targets	-	72.760	42.220	75.591	-	75.591	66.082	59.070	54.930	56.754	0.000	427.407
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides critical front-end investments for development of new test methodologies and standards; advanced test technology concepts; future test capabilities; advanced development of modeling, simulation, and instrumentation prototypes; advanced instrumentation prototypes; and the full-scale development of T&E capabilities for the United States (U.S) Army Test and Evaluation Command (ATEC). ATEC employs modeling, simulation, and instrumentation to provide a realistic multi-domain operational (MDO) test environment with modern threat effects, conduct test monitoring and control, and perform data analysis to enable essential transformation and support the Joint Force through development of MDO-capable forces. ATEC investments include organically developed capabilities as well as adaptation of T&E capabilities developed by others (e.g., government, academia) or commercial-off-the-shelf products. These T&E capabilities are located at, and managed by, ATEC T&E activities (excluding West Desert Test Center) and employed at ATEC ranges and other designated test locations across the country. Maintaining and modernizing ATEC T&E capabilities is critical to enable signature modernization efforts readiness and support the development and fielding cycle of all Army acquisition programs including rapid fielding initiatives and programs of record.

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

	FY 2023	FY 2024	FY 2025
Title: Technical Test Instrumentation & Targets	42.628	42.220	75.591
<p>Description: Develops, acquires, and upgrades critical T&E technology and instrumentation to successfully develop, test, and evaluate Army weapons and equipment. Provides hardware/software and communication to create realistic relevant test environments, real-time range operations for monitoring participants, and data support systems for full integration. Provides the necessary live, virtual and constructive environment, hardware-in-the-loop capabilities, and modeling and simulation needed for testing Army materiel solutions. Acquires instrumentation to measure performance of Command, Control, Communication, Computers, Cyber (C5) systems; performance and reliability, availability, and maintainability (RAM) data collection on tracked and wheeled vehicles; ballistic transducers for measuring chamber pressures during ammunition and barrel tests; supports development of common data collection instrumentation and data management systems used in testing across all test commodity areas and lifecycles; continues replacement and upgrade of range control instrumentation, radar, optics and telemetry used in missile testing; acquires data recorders, signal conditioning equipment, data processing equipment and other instrumentation for various aircraft tests; upgrades natural environments test instrumentation used for testing weapon systems, vehicles, munitions and support equipment in extreme hot desert environments as well as extreme cold conditions; continues upgrade of survivability/vulnerability test capabilities in support of live fire testing; upgrades and replaces mobile range communications equipment and digital end devices; and improves test efficiency through the use of smart devices as data collectors.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605602A / Army Technical Test Instrumentation and Targets	Project (Number/Name) FJ3 / Technical Test Instrumentation & Targets		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: ATEC test centers will continue to provide, acquire, and upgrade instrumentation for C4ISR, RAM, automotive, ballistics, missile, aviation and environmental testing across all test commodity areas and enhance/expand the use of common data collectors, smart devices, and enterprise data management tools. Examples include Aberdeen Test Center (ATC) Crew Survivability Instrumentation during Live Fire Test and Evaluation (LFT&E) to support NGCV; Electronic Proving Ground (EPG) Phoenix Architecture project for support to C4 network systems; Yuma Proving Ground (YPG) Long Range Precision Fires (LRPF) test support equipment; White Sands Missile Range (WSMR) Directed Energy Laser test modernization, and Redstone Test Center's (RTC) Modular Open System Architecture (MOSA) for supporting Future Vertical Lift (FVL) testing.</p> <p>Funds will help develop, acquire, and upgrade critical Meteorological test technology and instrumentation. Will provide the necessary test instrumentation, computer and communications systems, data collection, analysis and reporting equipment, and other special test capabilities to successfully develop and test Army weapons and equipment.</p> <p>FY 2025 Plans: ATEC test centers will continue to provide, acquire, and upgrade instrumentation for Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR), RAM, automotive, ballistics, missile, aviation and environmental testing across all test commodity areas and enhance/expand the use of common data collectors, smart devices, and enterprise data management tools. Examples include Aberdeen Test Center (ATC) Advanced Ballistics Instrumentation Measurements to support Rapid Capabilities and Critical Technologies Office (RCCTO); Electronic Proving Ground (EPG) Testing Re-Architected for Distributed Environments (TRADE) for support to C4 network systems; Yuma Proving Ground (YPG) Telecommunications Modernization; White Sands Missile Range (WSMR) Directed Energy Laser test modernization, and Redstone Test Center's (RTC) Pulsed Ultra High Frequency (PUHF) Amplifier System for supporting Future Vertical Lift (FVL) testing.</p> <p>Funds will help develop, acquire, and upgrade critical Meteorological test technology and instrumentation. Will provide the necessary test instrumentation, computer and communications systems, data collection, analysis and reporting equipment, and other special test capabilities to successfully develop and test Army weapons and equipment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: increase in funding is a response to economic assumption for non-pay and non-fuel purchases and funding increase for investment in operational test and evaluation (T&E) capabilities supporting Army modernization. These T&E capability investments are required to evaluate systems in a contested Multi-Domain Operations (MDO) Environment.</p>				
Title: Army Enterprise Business Systems (EBS) Consolidation - Test Data Management System (TDMS)		0.132	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605602A / Army Technical Test Instrumentation and Targets	Project (Number/Name) FJ3 / Technical Test Instrumentation & Targets

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Description: The Army consolidated Enterprise Business Systems (EBS) under the Acquisition Domain. The consolidation resulted in the transfer of funding \$137K in support of the Test Data Management System (TDMS). TDMS is the system by the White Sands Missile Range to manage test data and perform program management of all missions performed on the range.			
Accomplishments/Planned Programs Subtotals	42.760	42.220	75.591

	FY 2023	FY 2024
Congressional Add: Rapid Assurance Modernization Program - Test (RAMP-T)	30.000	-
FY 2023 Accomplishments: Congressional Add for RAMP-T.		
Congressional Adds Subtotals	30.000	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605604A / <i>Survivability/Lethality Analysis</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	35.750	37.518	37.604	-	37.604	37.649	38.049	38.464	38.848	0.000	263.882
675: <i>Army Survivability Analysis & Evaluation Supp</i>	-	35.750	37.518	37.604	-	37.604	37.649	38.049	38.464	38.848	0.000	263.882

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

This Program Element (PE) funds objective vulnerability assessment products necessary for the inherently-governmental Army Test & Evaluation Command/Army Evaluation Center (ATEC/ AEC) mission and for the Research and Development and analysis communities. Products result from investigating, analyzing, assessing, experimenting and reporting on the survivability of Soldiers, and on the survivability, lethality and vulnerability (SLV) of the highest-priority Army and threat systems. Products are leveraged within the Army Futures Command (AFC), the Cross Functional Teams (CFTs) and Program Managers / Program Executive Offices (PM/PEO) to exercise constructive design influence over materiel development and to provide credible engineering-level underpinning and input to the Army Analytical Community.

This PE provides quantitative analyses and data for fielded and developmental systems as the Army pursues its modernization priorities and ensures readiness through the fielding of lethal and survivable systems for multi-domain operations. This PE funds engineering level analysis and experimentation supporting all CFTs including Long Range Precision Fires systems, Next Generation Combat Vehicles, Future Vertical Lift, Network / Command, Control, Communications (C3I), Air & Missile Defense, Soldier Lethality, and other high Army priority efforts. Principal data and analysis domains are integrated materiel performance, cyber resilience, human engineering and performance, Electronic Warfare threat defense, and mission threat analysis.

Assessments funded by this PE are conducted across the spectrum of multi-domain battlefield threats to include: guns, missiles, mines and other methods of inflicting physical damage; jammers, countermeasures, and other electronic warfare techniques; cyber threats from insiders to nation states; and directed energy weapons. Many different kinds of technical capabilities are used to generate these analyses, including specialized equipment, modeling & simulation, and experimental facilities. This PE ensures these capabilities can represent a live, virtual, or constructive hostile environment required for credible assessment, thus enabling evaluators, developers, users, and decision makers to make informed acquisition judgments. This technical data from earliest AFC experimentation to final operational test is retained and serves as AFC's repository of analysis and information for supporting an ever-improving body of evidence to drive Milestone Decisions. This body of evidence enables properly informed decisions concerning acquisition and production; maximizes Army overmatch in systems and tactics; informs investment priorities; and mitigates system weaknesses prior to actual combat.

Technical data and analysis results funded by this PE are efficiently leveraged for many different Army uses, reducing total cost to the Army by eliminating the need for duplicative capabilities funded by individual system developers. Central funding of this mission assures accurate and consistent technical treatment across all formal system Evaluations, and across the Army's analytical community as it conducts analyses of alternatives and other studies. The United States (U.S.) Army Combat Capabilities Development Command (DEVCOM) and ATEC/AEC integrate the results from the work program into Army's formal Evaluation process to ensure ATEC can comply with its legally-mandated responsibility to assess system survivability along with effectiveness and suitability.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605604A / <i>Survivability/Lethality Analysis</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	36.500	37.518	37.529	-	37.529
Current President's Budget	35.750	37.518	37.604	-	37.604
Total Adjustments	-0.750	0.000	0.075	-	0.075
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.750	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	0.075	-	0.075

Change Summary Explanation

Minor increase in FY25 funding from the previous PB to the current PB due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605604A / <i>Survivability/Lethality Analysis</i>				Project (Number/Name) 675 / <i>Army Survivability Analysis & Evaluation Supp</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
675: <i>Army Survivability Analysis & Evaluation Supp</i>	-	35.750	37.518	37.604	-	37.604	37.649	38.049	38.464	38.848	0.000	263.882
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds objective vulnerability assessment products necessary for the inherently-governmental Army Test & Evaluation Command/Army Evaluation Center (ATEC/ AEC) mission, and for the Research and Development and analysis communities. Products result from investigating, analyzing, assessing, experimenting and reporting on the survivability of Soldiers, and on the survivability, lethality and vulnerability (SLV) of the highest-priority Army and threat systems. Products are leveraged within the Army Futures Command (AFC), the Cross-Functional Teams (CFTs), and Program Managers / Program Executive Offices (PM/PEO) to exercise constructive design influence over materiel development and to provide credible engineering-level underpinning and input to the Army Analytical Community.

This Project provides quantitative analyses and data for fielded and developmental systems as the Army pursues its modernization priorities and ensures readiness through the fielding of lethal and survivable systems for multi-domain operations. This Project funds engineering level analysis and experimentation supporting all CFTs including Long Range Precision Fires systems, Next Generation Combat Vehicles, Future Vertical Lift, Network / Command, Control, Communications (C3I), Air & Missile Defense, Soldier Lethality, and other highest Army priority efforts Principal data and analysis domains are integrated materiel performance, cyber resilience, human engineering and performance, Electronic Warfare threat defense, and mission threat analysis.

Assessments funded by this Project are conducted across the spectrum of multi-domain battlefield threats to include: guns, missiles, mines and other methods of inflicting physical damage; jammers, countermeasures, and other electronic warfare techniques; cyber threats from insiders to nation states; and directed energy weapons. Many different kinds of technical capabilities are used to generate these analyses, including specialized equipment, modeling & simulation, and experimental facilities. This Project ensures these capabilities can represent a live, virtual, or constructive hostile environment required for credible assessment, thus enabling evaluators, developers, users, and decision makers to make informed Acquisition judgments. This technical data from earliest AFC experimentation to final operational test is retained and serves as AFC's repository of analysis and information for supporting an ever-improving body of evidence to drive Milestone Decisions. This body of evidence enables properly informed decisions concerning acquisition and production; maximizes Army overmatch in systems and tactics; informs investment priorities; and mitigates system weaknesses prior to actual combat.

Technical data and analysis results funded by this Project are efficiently leveraged for many different Army uses, reducing total cost to the Army by eliminating the need for duplicative capabilities funded by individual system developers. Central funding of this mission assures accurate and consistent technical treatment across all formal system Evaluations, and across the Army's analytical community as it conducts analyses of alternatives and other studies. The United States (U.S.) Army Combat Capabilities Development Command (DEVCOM) and ATEC/AEC integrate the results from the work program into Army's formal Evaluation process to ensure ATEC can comply with its legally-mandated responsibility to assess system survivability along with effectiveness and suitability.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605604A / <i>Survivability/Lethality Analysis</i>	Project (Number/Name) 675 / <i>Army Survivability Analysis & Evaluation Supp</i>		
Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM) Analysis Center (DAC), Aberdeen Proving Ground, MD				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Title: Survivability, Lethality, Vulnerability Analyses (SLVA) for Ground, Aviation, Munitions, and Soldier Systems</p> <p>Description: This activity provides integrated multi-domain Survivability, Lethality, Vulnerability (SLV) Analyses for highest priority Ground, Aviation, Munitions, and Soldier Systems.</p> <p>FY 2024 Plans: Will develop and advance foundational SLVA capabilities to conduct analyses and assessments of ground, aviation, munitions, and Soldier technologies as specified by AFC/DEVCOM and AEC highest priority systems. Will provide data and analysis support throughout AFC experimentation, including the Project Convergence Campaign of Learning and the Future Study Program. For DEVCOM Centers/ARL, will work with prototype technology developers to constructively influence design and provide performance data to mature ground, aviation, munitions, and Soldier technologies and reduce risk.</p> <p>FY 2025 Plans: Will develop and advance foundational SLV analytical capabilities to conduct analyses and assessments of ground, aviation, munitions, and Soldier technology survivability/lethality as specified by AFC/DEVCOM and AEC highest priority systems including vulnerabilities related to Artificial Intelligence (AI), autonomy, human-agent teaming, and Cyber and Electromagnetic Activities (CEMA). Will provide data and analysis support throughout AFC Persistent Experimentation events and the Future Study Program. For DEVCOM Centers/Army Research Laboratory (ARL), will provide cyber and electronic warfare threat representation, lethality estimates, and performance analyses to inform prototype technology developers, influence design, and mature ground, aviation, munitions, and Soldier technologies and reduce risk.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.</p>		16.192	17.022	17.024
<p>Title: Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) System Survivability Assessments</p> <p>Description: This effort produces assessments of the survivability of C4ISR systems in Electronic Warfare (EW) and cyber threat environments and conducts Electronic Attack (EA) and cyber analyses that reveal critical vulnerabilities in C4ISR systems. It also defines, demonstrates, and recommends mitigation options to proponents and evaluators of C4ISR. A cyber vulnerability database is maintained for the benefit of the community.</p> <p>FY 2024 Plans: Will develop and advance foundational cyber and electronic warfare analytical capabilities to conduct analyses and assessments of C4ISR technologies as specified by AFC/DEVCOM and AEC highest priority systems. Will provide data and analysis support</p>		17.552	18.235	18.240

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605604A / <i>Survivability/Lethality Analysis</i>	Project (Number/Name) 675 / <i>Army Survivability Analysis & Evaluation Supp</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>throughout AFC experimentation, including the Project Convergence Campaign of Learning and the Future Study Program. For DEVCOM Centers/ARL, will work with prototype technology developers to constructively influence design and provide performance data to mature C4ISR technologies and reduce risk.</p> <p>FY 2025 Plans: Will develop and advance foundational cyber and electronic warfare analytical capabilities to conduct analyses and assessments of C4ISR technology survivability as specified by AFC/DEVCOM and AEC highest priority systems including vulnerabilities related to Artificial Intelligence (AI) and CEMA. Will provide data and analysis support throughout AFC Persistent Experimentation events and the Future Study Program. For DEVCOM Centers/ARL, will provide cyber and electronic warfare threat representation and performance analyses to inform prototype technology developers, influence design, and mature C4ISR technologies and reduce risk.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.</p>				
<p>Title: Survivability, Lethality, Vulnerability (SLV) Analyses for Developmental Air and Missile Defense Systems</p> <p>Description: Conduct integrated SLV analyses for developmental air and missile defense systems, pre-planned product improvements of current systems, and recently fielded systems.</p> <p>FY 2024 Plans: Will develop and advance foundational SLV capabilities to conduct analyses and assessments of developmental air and missile defense technologies as specified by AFC/DEVCOM and AEC highest priority systems. Will provide data and analysis support throughout AFC experimentation, including the Project Convergence Campaign of Learning and the Future Study Program. For DEVCOM Centers/ARL, will work with prototype technology developers to constructively influence design and provide performance data to mature developmental air and missile defense technologies and reduce risk.</p> <p>FY 2025 Plans: Will develop and advance foundational SLV analytical capabilities to conduct analyses and assessments of developmental air and missile defense technology survivability/lethality as specified by AFC/DEVCOM and AEC highest priority systems including vulnerabilities related to AI, human-agent teaming, and CEMA. Will provide data and analysis support throughout AFC Persistent Experimentation events and the Future Study Program. For DEVCOM Centers/ARL, will provide cyber and electronic warfare threat representation, lethality estimates, and performance analyses to inform prototype technology developers, influence design, and mature air and missile defense technologies and reduce risk.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		2.006	2.261	2.340

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605604A / <i>Survivability/Lethality Analysis</i>	Project (Number/Name) 675 / <i>Army Survivability Analysis & Evaluation Supp</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Funding increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals	35.750	37.518	37.604

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605606A / <i>Aircraft Certification</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	4.777	2.718	2.201	-	2.201	2.205	2.228	2.253	2.275	Continuing	Continuing
092: <i>Aircraft Certification</i>	-	4.777	2.718	2.201	-	2.201	2.205	2.228	2.253	2.275	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Airworthiness Certification Program Element (PE) assures safe flight operation of Army aircraft and aviation systems by means of technical design approval and qualification of systems to appropriate airworthiness standards. This PE supports independent airworthiness qualification for all assigned developmental and in-production Army aircraft, both manned and unmanned, as required by Army Regulation (AR) 70-62 ("Airworthiness of Aircraft Systems"), and is essential for assuring the safe operation of Army aircraft. This PE performs engineering functions (design, analysis, testing, demonstrations, and system specification compliance) essential for certifying the airworthiness of nearly 20,000 assigned Army aircraft. This PE also supports: management/execution of the Army Military Airworthiness Certification Criteria (AMACC) program; management/execution of airworthiness approval for new systems and materiel changes for all assigned Army aircraft systems; airworthiness engineering support for major development/modification and future systems/subsystems requirements of the Program Executive Officer for Aviation (PEO AVN) and U.S. Army Special Operations Command's Technology Applications Program Office (TAPO); and management of test and evaluation processes in support of the airworthiness qualification process. The Airworthiness Certification PE also performs general research and development in support of aircraft qualification and overarching airworthiness projects that involve multiple aircraft models, and supports the application of other critical aviation subsystems onto Army aircraft.

This PE also supports: airworthiness certification for military-use civil derivative aircraft technical qualification through the Federal Aviation Administration's Military Certification Office; development of airworthiness procedures, specifications, critical standards, and other design and qualification documents; participation in senior leadership mandated airworthiness tri-service activities (e.g., National Airworthiness Council) and international airworthiness related activities mandated by treaty (e.g., Flight Into Non-segregated Airspace (FINAS)). The Aircraft Certification line is the only legal means per fiscal law to proactively establish certification criteria for priority research areas per the Army Modernization Strategy being leveraged in Army Aviation programs of record. This includes airworthiness involvement in Technology Transition projects such as the Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System Architecture, Autonomy/Artificial Intelligence/Machine Learning, Digital Engineering, Electric and Hybrid Propulsion and additive manufacturing.

Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM), Aviation & Missile Center (AvMC), Redstone Arsenal, AL.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605606A / <i>Aircraft Certification</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	4.777	2.718	2.253	-	2.253
Current President's Budget	4.777	2.718	2.201	-	2.201
Total Adjustments	0.000	0.000	-0.052	-	-0.052
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.052	-	-0.052

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

Project: 092: *Aircraft Certification*

Congressional Add: *Program Increase - Big Data Analytics*

	FY 2023	FY 2024
Congressional Add Subtotals for Project: 092	2.000	-
Congressional Add Totals for all Projects	2.000	-

Change Summary Explanation

A slight funding reduction is the result of savings from maximizing efficiencies in the Airworthiness Certification Project.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605606A / Aircraft Certification				Project (Number/Name) 092 / Aircraft Certification			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
092: Aircraft Certification	-	4.777	2.718	2.201	-	2.201	2.205	2.228	2.253	2.275	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Airworthiness Certification Project assures safe flight operation of Army aircraft and aviation systems by means of technical design approval and qualification of systems to appropriate airworthiness standards. This Project supports independent airworthiness qualification for all assigned developmental and in-production Army aircraft, both manned and unmanned, as required by Army Regulation (AR) 70-62 ("Airworthiness of Aircraft Systems"), and is essential for assuring the safe operation of Army aircraft. This Project performs engineering functions (design, analysis, testing, demonstrations, and system specification compliance) essential for certifying the airworthiness of nearly 20,000 assigned Army aircraft. This Project also supports: management/execution of the Army Military Airworthiness Certification Criteria (AMACC) program; management/execution of airworthiness approval for new systems and materiel changes for all assigned Army aircraft systems; airworthiness engineering support for major development/modification and future systems/ subsystems requirements of the Program Executive Officer for Aviation (PEO AVN) and U.S. Army Special Operations Command's Technology Applications Program Office (TAPO); and management of test and evaluation processes in support of the airworthiness qualification process. The Airworthiness Certification Project also performs general research and development in support of aircraft qualification and overarching airworthiness projects that involve multiple aircraft models, and supports the application of other critical aviation subsystems onto Army aircraft.

This Project also supports: airworthiness certification for military-use civil derivative aircraft technical qualification through the Federal Aviation Administration's Military Certification Office; development of airworthiness procedures, specifications, critical standards, and other design and qualification documents; participation in senior leadership mandated airworthiness tri-service activities (e.g., National Airworthiness Council) and international airworthiness related activities mandated by treaty (e.g. Flight Into Non-segregated Airspace (FINAS)). The Aircraft Certification line is the only legal means per fiscal law to proactively establish certification criteria for priority research areas per the Army Modernization Strategy being leveraged in Army Aviation programs of record. This includes airworthiness involvement in Technology Transition projects such as the Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System Architecture, Autonomy/Artificial Intelligence/Machine Learning, Digital Engineering, Electric and Hybrid Propulsion and additive manufacturing.

Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM) Aviation & Missile Center (AvMC), Redstone Arsenal, AL.

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

	FY 2023	FY 2024	FY 2025
Title: Certification Requirements and Studies for Force Modernization Aircraft, Future Aircraft, and Advanced Aircraft Technologies	1.557	1.715	1.448
Description: Perform studies to support airworthiness certification requirements for Force Modernization and Future Aircraft Systems.			
FY 2024 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605606A / Aircraft Certification	Project (Number/Name) 092 / Aircraft Certification
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
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<p>Will refine Army Military Airworthiness Certification Criteria (AMACC) document. Will conduct technical and airworthiness qualification assessments, projects, and studies to demonstrate airworthiness and system performance for Army force modernization aircraft systems and multi-system programs (e.g. AH-64E, UH-60M, MH-47G, MH-60M, etc.). Will conduct studies of Airworthiness Certification requirements for future aircraft systems and other advanced technology transition programs (e.g. Future Attack Reconnaissance Aircraft, Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System). These efforts will aid in fully understanding advanced aviation technologies and proposed airworthiness certification criteria, standards, and methods of compliance.</p> <p>FY 2025 Plans: Will refine Army Military Airworthiness Certification Criteria (AMACC) document. Will conduct technical and airworthiness qualification assessments, projects, and studies to demonstrate airworthiness and system performance for Army force modernization aircraft systems and multi-system programs (e.g. AH-64E, UH-60M, MH-47G, MH-60M, etc.). Will conduct studies of Airworthiness Certification requirements for future aircraft systems and other advanced technology transition programs (e.g. Future Long Range Assault Aircraft, Advanced Unmanned Aircraft Systems, Modular Open System). These efforts will aid in fully understanding advanced aviation technologies and proposed airworthiness certification criteria, standards, and methods of compliance.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle for this effort.</p>			
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<p>Title: Design Standards</p> <p>Description: Support the development, implementation and maintenance of Army Aeronautical Design Standards, airworthiness procedures and tools, and overarching Airworthiness qualification documentation.</p> <p>FY 2024 Plans: Will develop, implement, and maintain Army Aeronautical Design Standards, airworthiness procedures and tools, and overarching airworthiness qualification documentation.</p> <p>FY 2025 Plans: Will develop, implement, and maintain Army Aeronautical Design Standards, airworthiness procedures and tools, and overarching airworthiness qualification documentation.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle for this effort.</p>	0.777	0.873	0.706
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<p>Title: Commercial Derivative Aircraft</p> <p>Description: Technical and airworthiness qualification for Commercial Derivative Aircraft.</p>	0.222	0.071	-
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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605606A / Aircraft Certification	Project (Number/Name) 092 / Aircraft Certification
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Will provide cursory technical and airworthiness qualification for Commercial Derivative Aircraft through the Federal Aviation Administration.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decrease reflects planned completion of work.</p>			
<p>Title: Aircraft Fleet Airworthiness Certification Advancement and Synchronization</p> <p>Description: Support efforts to establish and maintain aircraft safety for a fleet of aircraft.</p> <p>FY 2024 Plans: Will provide support to maintain general situational awareness in national and international airworthiness certification committees, conferences and working groups responsible for establishing, maintaining, and synchronizing aircraft safety for fleets of aircraft (e.g. National Airworthiness Council, Joint Propulsion Coordinating Committee, North Atlantic Treaty Organization (NATO) Airworthiness working groups, Air Force Interoperability Council (AFIC) Airworthiness working groups, and Global Air Traffic Management working groups).</p> <p>FY 2025 Plans: Will provide support to maintain general situational awareness in national and international airworthiness certification committees, conferences and working groups responsible for establishing, maintaining, and synchronizing aircraft safety for fleets of aircraft (e.g. National Airworthiness Council, Joint Propulsion Coordinating Committee, North Atlantic Treaty Organization (NATO) Airworthiness working groups, Air Force Interoperability Council (AFIC) Airworthiness working groups, and Global Air Traffic Management working groups).</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change reflects planned lifecycle for this effort.</p>	0.221	0.059	0.047
Accomplishments/Planned Programs Subtotals	2.777	2.718	2.201

	FY 2023	FY 2024
Congressional Add: Program Increase - Big Data Analytics	2.000	-
FY 2023 Accomplishments: Congressional interest item.		
Congressional Adds Subtotals	2.000	-

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

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army Date: March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605606A / Aircraft Certification	Project (Number/Name) 092 / Aircraft Certification
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C. Other Program Funding Summary (\$ in Millions)

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605702A / <i>Meteorological Support to RDT&E Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	6.820	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.820
128: <i>Meteorological Support To RDT&E Activities</i>	-	6.820	-	-	-	-	-	-	-	-	0.000	6.820

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

This Program Element (PE) provides meteorological support to research, development, test, and evaluation (RDTE) activities and provides standard and specialized weather forecasts and data to satisfy Army/Department of Defense (DoD) RDTE test requirements for modern weaponry. Types of support include: (1) unique atmospheric analysis and sampling to include atmospheric transmittance, extinction, optical scintillation, infrared temperature, aerosol/smoke cloud dispersion characteristics, and ballistic meteorological measurements; (2) test event forecasting to include prediction of sound propagation for ballistic firing tests, specialized prediction of light levels and target-to-background measurements, and predictions for electro-optical testing and ballistic artillery/mortar firing; and (3) advisory and warning products such as go/no-go test recommendations for ballistic and atmospheric probe missiles, smoke/obscurant tests, hazard predictions for chemical agent munitions disposal, monitoring dispersion of simulant clouds for chemical/biological detector tests, simulated nuclear blasts, and weather warnings for test range safety. This PE provides technical weather support to Army and Joint Program Executive Officers (PEOs), Project Managers (PMs), and the Army test ranges and sites at: White Sands Test Center (WSTC), White Sands Missile Range, New Mexico; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; West Desert Test Center (WDTC), Dugway Proving Ground, Utah; Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; Redstone Test Center (RTC), Redstone Arsenal, Alabama; Yuma Test Center (YTC), Yuma Proving Ground, Arizona (including the Cold Regions Test Center (CRTC), Fort Greely, Alaska); Operational Test Command (OTC), Fort Hood, Texas and Fort Bragg, North Carolina. This PE develops methodologies and acquires instrumentation and systems that allow meteorological teams to support current and future Army/DoD RDTE requirements. It finances indirect meteorological support operating costs not billable to customers along with replacement/upgrade of meteorological instrumentation and support systems. Direct costs for meteorological support services are not funded by this PE, but are borne by the customer (i.e., materiel/weapons developers and project/product managers) in accordance with DoD Directive 7000.14R (Department of Defense Financial Management Regulations). This PE enables more effective test scheduling and execution, and is essential to the accomplishment of the Army's developmental and operational test mission in that precise weather modeling and measurements directly influence test item performance and quantify test item weather dependencies and vulnerabilities.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605702A / <i>Meteorological Support to RDT&E Activities</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	6.958	0.000	0.000	-	0.000
Current President's Budget	6.820	0.000	0.000	-	0.000
Total Adjustments	-0.138	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.138	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605702A / <i>Meteorological Support to RDT&E Activities</i>				Project (Number/Name) 128 / <i>Meteorological Support To RDT&E Activities</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
128: <i>Meteorological Support To RDT&E Activities</i>	-	6.820	-	-	-	-	-	-	-	-	0.000	6.820
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides meteorological support to research, development, test, and evaluation (RDTE) activities and provides standard and specialized weather forecasts and data to satisfy Army/Department of Defense (DoD) RDTE test requirements for modern weaponry. Types of support include: (1) unique atmospheric analysis and sampling to include atmospheric transmittance, extinction, optical scintillation, infrared temperature, aerosol/smoke cloud dispersion characteristics, and ballistic meteorological measurements; (2) test event forecasting to include prediction of sound propagation for ballistic firing tests, specialized prediction of light levels and target-to-background measurements, and predictions for electro-optical testing and ballistic artillery/mortar firing; and (3) advisory and warning products such as go/no-go test recommendations for ballistic and atmospheric probe missiles, smoke/obscurant tests, hazard predictions for chemical agent munitions disposal, monitoring dispersion of simulant clouds for chemical/biological detector tests, simulated nuclear blasts, and weather warnings for test range safety. This Project provides technical weather support to Army and Joint Program Executive Officers (PEOs), Project Managers (PMs), and the Army test ranges and sites at: White Sands Test Center (WSTC), White Sands Missile Range, New Mexico; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; West Desert Test Center (WDTC), Dugway Proving Ground, Utah; Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; Redstone Test Center (RTC), Redstone Arsenal, Alabama; Yuma Test Center (YTC), Yuma Proving Ground, Arizona (including the Cold Regions Test Center (CRTC), Fort Greely, Alaska); Operational Test Command (OTC), Fort Hood, Texas and Fort Bragg, North Carolina. This PE develops methodologies and acquires instrumentation and systems that allow meteorological teams to support current and future Army/DoD RDTE requirements. It finances indirect meteorological support operating costs not billable to customers along with replacement/ upgrade of meteorological instrumentation and support systems. Direct costs for meteorological support services are not funded by this PE, but are borne by the customer (i.e., materiel/weapons developers and project/product managers) in accordance with DoD Directive 7000.14R (Department of Defense Financial Management Regulations). This PE enables more effective test scheduling and execution and is essential to the accomplishment of the Army's developmental and operational test mission in that precise weather modeling and measurements directly influence test item performance and quantify test item weather dependencies and vulnerabilities.

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

	FY 2023	FY 2024	FY 2025
Title: Civilian Pay and Support Costs	2.398	-	-
Description: Funding related to Civilian Pay and associated indirect costs for meteorological support.			
Title: Four-Dimensional Weather System and Instrumentation	4.422	-	-
Description: Provides funding for meteorological instrumentation and technology to support RDTE activities at Army test sites. Includes funding for sustainment and enhancement of the 4DWX system, an advanced meteorological support system that provides high-resolution weather forecasts and analyzes. The 4DWX analyzes and forecasts the 3-dimensional structure of the atmosphere over time (4th dimension) and is used in test planning, conduct, and forensic analyses.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605702A / <i>Meteorological Support to RDT&E Activities</i>	Project (Number/Name) 128 / <i>Meteorological Support To RDT&E Activities</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Accomplishments/Planned Programs Subtotals	6.820	-	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605706A / <i>Materiel Systems Analysis</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	22.004	26.902	27.420	-	27.420	27.445	27.701	27.967	28.208	0.000	187.647
541: <i>Materiel Sys Analysis</i>	-	22.004	26.902	27.420	-	27.420	27.445	27.701	27.967	28.208	0.000	187.647

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

This Program Element (PE) resources the U.S. Army Combat Capabilities Development Command (DEVCOM) Analysis Center (DAC) to conduct integrated material performance analyses to support Army decisions in technology, materiel acquisition, and the design, development, fielding and sustainment of Army materiel systems. The analysis products funded by this PE are leveraged to support Materiel Acquisition decisions and influence the design, development, and sustainment of Army weapon/materiel systems in support of the current and future force in the areas of Long-Range Precision Fires, Next Generation Combat Vehicles, Future Vehicle Lift, Network/Command, Control, Communications and Intelligence, Air and Missile Defense, Soldier Lethality and other Army Priority efforts.

As the Army's center for integrated materiel performance analysis, the DAC supports Army and Department of Defense (DoD) decision makers throughout the entire acquisition process in responding to analytical requirements across the full spectrum of materiel. The DAC's unique in-house, consistent, integrated analytical capability provides the U.S. Army Futures Command (AFC) and Army leadership with timely, independent, unbiased, reliable, and high quality analysis to support complex decisions required for Current Operations and the development of the Future Force. The DAC's integrated set of skills, tools, and data repository are focused on the highest Army Priorities with a core mission to build the body of evidence and deliver objective analysis and experimentation across the entire life cycle to ensure Readiness today and a more lethal Future Force tomorrow.

This PE develops and certifies system level, and systems-of-systems level, performance and effectiveness data across a broad range of capabilities such as target acquisition, probability of inflicting catastrophic damage, personnel and vehicle survivability, mobility, network, system reliability, and several additional capability areas used in Army studies. The PE funds the development of item-level performance methodology, and Models and Simulations (M&S) for the current and future operational environments and emerging threats. The M&S capabilities support the development, linkage and accreditation of live, virtual, and constructive simulations, and provide unique tools that support systems analysis of individual systems and the combined arms environment. This M&S infrastructure provides a hierarchical modeling framework that is unique to the DAC and allows for a comprehensive performance and effectiveness analysis and prediction capability that can be utilized to support trade-off and investment decisions prior to extensive and expensive hardware testing of proposed systems/technologies.

This PE funds the Center for Reliability Growth (CRG), to develop critical tools, methodologies, policies, guidance and educational materials required to help acquisition programs achieve required reliability during the acquisition process. The CRG develops and applies engineering approaches to assess the reliability of Army materiel and provides recommendations on ways to improve reliability, thereby, reducing logistics footprints and life cycle costs, and extending failure-free periods for materiel. The CRG has developed an integrated set of skills and tools focused on its core competencies to be responsive in delivering objective data and analysis across the entire life cycle to ensure Readiness today and a more lethal future force tomorrow.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605706A / <i>Materiel Systems Analysis</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	22.004	26.902	27.365	-	27.365
Current President's Budget	22.004	26.902	27.420	-	27.420
Total Adjustments	0.000	0.000	0.055	-	0.055
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	0.055	-	0.055

Change Summary Explanation

Minor increase in FY25 funding from the previous PB to the current PB due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605706A / <i>Materiel Systems Analysis</i>				Project (Number/Name) 541 / <i>Materiel Sys Analysis</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
541: <i>Materiel Sys Analysis</i>	-	22.004	26.902	27.420	-	27.420	27.445	27.701	27.967	28.208	0.000	187.647
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project resources the U.S. Army Combat Capabilities Development Command (DEVCOM) Analysis Center (DAC) to conduct integrated material performance analyses to support Army decisions in technology, materiel acquisition, and the design, development, fielding and sustainment of Army materiel systems. The analysis products funded by this Project are leveraged to support Materiel Acquisition decisions and influence the design, development, and sustainment of Army weapon/ materiel systems in support of the current and future force in the areas of Long-Range Precision Fires, Next Generation Combat Vehicles, Future Vehicle Lift, Network/ Command, Control, Communications and Intelligence, Air and Missile Defense, Soldier Lethality and other Army Priority efforts.

As the Army's center for integrated materiel performance analysis, the DAC supports Army and Department of Defense (DoD) decision makers throughout the entire acquisition process in responding to analytical requirements across the full spectrum of materiel. The DAC's unique in-house, consistent, integrated analytical capability provides the U.S. Army Futures Command (AFC) and Army leadership with timely, independent, unbiased, reliable, and high quality analysis to support complex decisions required for Current Operations and the development of the Future Force. The DAC's integrated set of skills, tools and data repository are focused on the highest Army Priorities with a core mission to build the body of evidence and deliver objective analysis and experimentation across the entire life cycle to ensure Readiness today and a more lethal Future Force tomorrow.

This Project develops and certifies system level, and systems-of-systems level, performance and effectiveness data across a broad range of capabilities such as target acquisition, probability of inflicting catastrophic damage, personnel and vehicle survivability, mobility, network, system reliability, and several additional capability areas used in Army studies. The Project funds the development of item-level performance methodology, and Models and Simulations (M&S) for the current and future operational environments and emerging threats. The M&S capabilities support the development, linkage and accreditation of live, virtual, and constructive simulations, and provide unique tools that support systems analysis of individual systems and the combined arms environment. This M&S infrastructure provides a hierarchical modeling framework that is unique to the DAC and allows for a comprehensive performance and effectiveness analysis and prediction capability that can be utilized to support trade-off and investment decisions prior to extensive and expensive hardware testing of proposed systems/technologies.

This Project funds the Center for Reliability Growth (CRG), to develop critical tools, methodologies, policies, guidance and educational materials required to help acquisition programs achieve required reliability during the acquisition process. The CRG develops and applies engineering approaches to assess the reliability of Army materiel and provides recommendations on ways to improve reliability, thereby, reducing logistics footprints and life cycle costs, and extending failure-free periods for materiel. The CRG has developed an integrated set of skills and tools focused on its core competencies to be responsive in delivering objective data and analysis across the entire life cycle to ensure Readiness today and a more lethal future force tomorrow.

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

	FY 2023	FY 2024	FY 2025
Title: Materiel Systems Analysis	22.004	26.902	27.420

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605706A / <i>Materiel Systems Analysis</i>	Project (Number/Name) 541 / <i>Materiel Sys Analysis</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: This activity provides for systems and engineering analyses to support the entire Future Force Modernization Enterprise decisions in technology, materiel acquisition, and the design, development, fielding and sustainment of Army materiel systems; the development of system level performance and effectiveness data and item-level performance methodology, and models and simulations; and the development of critical tools, methodologies, policies and guidance as the Center for Reliability Growth to improve reliability, extend failure-free periods, and reduce support costs.</p> <p>FY 2024 Plans: Will develop, maintain, and advance essential verified and validated item/system level methodologies, tools, and models and simulations (M&S) to conduct integrated materiel performance and engineering analyses for AFC's highest priority technologies. Will serve as AFC's repository for the body of technical and quantitative evidence concerning AFC experimentation and Army modernization technologies and systems. For AFC and DEVCOM Centers/ARL, will implement analytical capabilities to inform system cost/ performance trades, early technology development decisions, weapons/systems performance analyses, operational energy analyses, climate change analyses, system technical and schedule risk assessments, business case analyses, cost benefit analyses, requirements definition, technology insertion studies, reliability growth studies, and Physics of Failure analyses. Will continue to provide data and analysis support throughout the Project Convergence Campaign of Learning and other AFC experimentation. Will perform studies to provide essential certified weapons system performance data for AFC and DEVCOM Centers/ARL. Will continue to provide foundational analytical tools and capabilities as the Army's Center for Reliability Growth to improve the reliability of Army systems and technologies. For DEVCOM Centers/ARL, will provide relevant data and results to prototype technology developers, evaluators, senior decision makers, and downstream force-on-force modelers to constructively influence design, mature technologies, and reduce risk.</p> <p>FY 2025 Plans: Will develop methodologies, tools, and models and simulations (M&S) to provide integrated materiel performance and engineering analyses for Artificial Intelligence and Cyber and Electromagnetic Activities to provide an analytic foundation to deliver the Army of 2030 and design the Army of 2040. Will continue to provide data collection/management and analysis, analytic software applications, and database development, maintenance, and integration, as well as M&S for AFC Persistent Experimentation events. Will continue to conduct technology performance and engineering analyses serving as AFC's repository for the body of evidence concerning developmental Army technologies and systems. Will analyze Army energy supply capacity and the difference between supply capacity versus future energy demands. For AFC and DEVCOM Centers/ARL, will implement analytical capabilities to inform system cost/ performance trades, technology development decisions, weapons/systems performance and effectiveness analyses, climate change analyses, system technical and schedule risk assessments, business case analyses, requirements definition, and reliability, availability, and maintainability studies. Will provide certified characteristics and performance data to AFC and DEVCOM Centers/ARL in support of technical studies and Wargames. For DEVCOM Centers/</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605706A / <i>Materiel Systems Analysis</i>	Project (Number/Name) 541 / <i>Materiel Sys Analysis</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
ARL, will continue to provide relevant data and results to prototype technology developers, evaluators, senior decision makers, and force-on-force modelers to inform design, mature technologies, and reduce risk.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding increase reflects planned lifecycle of this effort.			
Accomplishments/Planned Programs Subtotals	22.004	26.902	27.420

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605709A / <i>Exploitation of Foreign Items</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	6.186	7.805	6.245	-	6.245	6.294	6.384	6.455	6.519	Continuing	Continuing
C28: <i>Acq/Exploit Threat Items</i>	-	6.186	7.805	6.245	-	6.245	6.294	6.384	6.455	6.519	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) will continue to support the acquisition, exploitation, and inventory of foreign ground materiel with potential advanced technology threats to United States (U.S.) systems, as well as emerging and destructive threats such as cyber vulnerabilities and biometric systems. The primary aim of the PE is to maximize the efficiency of research and development for force and materiel development by reducing the uncertainties associated with these threats. The PE also answers scientific and technical intelligence requirements, provides materiel for realistic testing and training, and aids in the development of countermeasures to threat systems, materiel, and technologies. Operations have increased the amount of captured threat materiel that require immediate exploitation to develop countermeasures and force protection measures for U.S. forces. Acquisition and exploitation are executed according to Army Foreign Materiel Program (FMP) Plan prioritization and with the approval of the Army Deputy Chief of Staff for Intelligence (G2).

Overseas Operations Costs (OOC) funds this requirement in the amount of \$2,116 thousand for FY 2025 Budget Estimate. Overseas Operations Costs (OOC) are those financed with former Overseas Contingency Operations (OCO) funding.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	6.186	7.805	6.392	-	6.392
Current President's Budget	6.186	7.805	6.245	-	6.245
Total Adjustments	0.000	0.000	-0.147	-	-0.147
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.147	-	-0.147

Change Summary Explanation

A slight funding reduction is the result of savings from maximizing efficiencies in the Army Foreign Materiel Program (FMP).

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605709A / <i>Exploitation of Foreign Items</i>				Project (Number/Name) C28 / <i>Acq/Exploit Threat Items</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>C28: Acq/Exploit Threat Items</i>	-	6.186	7.805	6.245	-	6.245	6.294	6.384	6.455	6.519	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides for the acquisition, exploitation, and inventory of foreign ground materiel with potential advanced technology threats to United States (U.S.) systems, as well as emerging and destructive threats. The primary aim of the Project is to maximize the efficiency of research and development for force and materiel development by reducing the uncertainties associated with these threats. The Project also answers scientific and technical intelligence requirements, provides materiel for realistic testing and training, and aids in the development of countermeasures to threat systems, materiel, and technologies. Operations have increased the amount of captured threat materiel that require immediate exploitation to develop countermeasures and force protection measures for U.S. forces. Acquisition and exploitation are executed according to Army Foreign Materiel Program (FMP) Plan prioritization and with the approval of the G2.

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

	FY 2023	FY 2024	FY 2025
Title: Army Foreign Materiel Program (FMP) Acquisition	6.186	7.805	6.245
Description: This effort provides for the acquisition of foreign ground materiel with potential advanced technology threats to U.S. systems, as well as emerging and destructive threats. The primary aim of the effort is to maximize the efficiency of research and development for force and materiel development by reducing the uncertainties associated with these threats. The effort also answers scientific and technical intelligence requirements, provides materiel for realistic testing and training, and aids in the development of countermeasures to threat systems, materiel, and technologies. Operations have increased the amount of captured threat materiel that require immediate exploitation to develop countermeasures and force protection measures for US forces. Acquisition and exploitation are executed according to Army FMP Plan prioritization and with the approval of the G2.			
FY 2024 Plans: Will conduct Foreign Materiel Acquisition of threat related foreign ground materiel systems and state of the art technologies of military significance.			
FY 2025 Plans: Will conduct Foreign Materiel Acquisition of threat related foreign ground materiel systems and state of the art technologies of military significance.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreased due to savings from maximizing efficiencies garnered in the Army Foreign Materiel Program (FMP).			
Accomplishments/Planned Programs Subtotals	6.186	7.805	6.245

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army Date: March 2024

Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 6	PE 0605709A / <i>Exploitation of Foreign Items</i>	C28 / <i>Acq/Exploit Threat Items</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605712A / <i>Support of Operational Testing</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	69.879	75.133	76.088	-	76.088	76.225	77.058	77.908	78.688	0.000	530.979
V02: <i>ATEC Activities</i>	-	69.879	75.133	76.088	-	76.088	76.225	77.058	77.908	78.688	0.000	530.979

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

This Program Element (PE) provides resources to the United States (U.S.) Army Test and Evaluation Command (ATEC) to operate the Army's Operational Test Command (OTC). OTC conducts independent operational tests that provide significant data to Army decision-makers on key Army systems and concepts. This PE finances recurring costs for OTC that are essential for conducting realistic and continuous testing in the critical areas of equipment, doctrine, force design and training. These recurring costs include civilian pay, requirements for test support contracts, sustainment of test technology, network support, temporary duty, training, supplies, and equipment.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	70.718	75.133	75.901	-	75.901
Current President's Budget	69.879	75.133	76.088	-	76.088
Total Adjustments	-0.839	0.000	0.187	-	0.187
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.839	-			
• Adjustments to Budget Years	-	-	0.187	-	0.187

Change Summary Explanation

Increased funding due to economic assumptions supporting civilian pay.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605712A / Support of Operational Testing	Project (Number/Name) V02 / ATEC Activities
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
V02: ATEC Activities	-	69.879	75.133	76.088	-	76.088	76.225	77.058	77.908	78.688	0.000	530.979
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides funding to the Army Test and Evaluation Command (ATEC) to operate the Operational Test Command (OTC) which conducts independent operational tests that provide significant data to Army decision makers on key systems in support of the Army's modernization priorities. These operational tests are required by public law (Title 10 USC 2399). This Project finances recurring costs for OTC that are essential to conduct realistic and continuous testing in the critical areas of equipment, doctrine, force design and training. These recurring costs include civilian pay, requirements for test support contracts, sustainment of test technology, network support, training, supplies, equipment, and temporary duty travel.

OTC consists of four forward Test Directorates (Airborne and Special Operations Test Directorate, Fort Liberty, North Carolina; Air and Missile Defense Test Directorate, Fort Bliss, Texas; Fires Support Test Directorate, Fort Sill, Oklahoma; and the Intelligence Electronic Warfare Test Directorate, Fort Huachuca, Arizona) together with four additional Test Directorates (Aviation; Maneuver; Mission Command; Maneuver Support and Sustainment) and OTC Headquarters at Fort Cavazos, Texas. These activities support the development and fielding cycle of all Army acquisition programs including rapid fielding initiatives in support of the Army's signature modernization priorities. The primary mission of these test directorates is to perform detailed planning, execution, and reporting of Customer Tests, Early User Tests, Limited User Tests (LUT), Initial Operational Test and Evaluation (IOTE), and Follow-On Operational Tests (FOT) in support of the Army's Signature Modernization Efforts. OTC also supports Army Futures Command's Soldier Touch Points and other early assessments of potential new systems the Army seeks to acquire in support of Army Modernization. Funding provides essential sustainment of models, simulations, and instrumentation for operational testing of airborne/aviation systems, mission command systems, fires systems, intelligence systems, real-time casualty assessment (RTCA), and common live-virtual-constructive (LVC) tools.

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

	FY 2023	FY 2024	FY 2025
Title: Operational Test Command Civilian Pay	44.497	47.756	48.253
Description: This funding supports the cost of civilian labor for OTC authorizations.			
FY 2024 Plans: Will continue to support the costs of civilian labor for OTC authorizations.			
FY 2025 Plans: Will continue to support the costs of civilian labor for OTC Program Budget Guidance (PBG) authorizations.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to civilian pay raise assumptions.			
Title: Operational Test Command Operations Support	12.171	13.512	13.807

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605712A / <i>Support of Operational Testing</i>	Project (Number/Name) V02 / <i>ATEC Activities</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Description: OTC operational costs including mission support and information technology contracts, logistics training, equipment, travel, facility maintenance and supplies.</p> <p>FY 2024 Plans: Continue to support operational costs including mission support and information technology contracts, logistics, training, equipment, travel, and supplies that are required to conduct the operational test mission. Contracted support includes test support requirements; information technology (IT) and network support and licensing; facilities maintenance and technology modernization updates.</p> <p>FY 2025 Plans: Continue to support operational costs including mission support and information technology contracts, logistics, training, equipment, travel, and supplies that are required to conduct the operational test mission. Contracted support includes test support requirements; information technology (IT) and network support and licensing; facilities maintenance and technology modernization updates.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding is due to cost for non-pay and non-fuel purchases.</p>				
<p>Title: Test Technology Sustainment</p> <p>Description: This project sustains the capabilities to create a realistic multi-domain operational (MDO) test environment with modern threat effects, provide test monitoring and control, and data analysis. This project sustains the expertise to employ modeling and simulation tools and the expertise to adapt/integrate current Army training simulation capabilities and other tools to function with new Army systems and sustains operational test (OT)-unique simulation and instrumentation systems. By sustaining the models and simulation tools and expertise, this project reduces test costs and the demand for Army test units by simulating tactical engagements, adjacent and higher headquarters units, mission command message traffic, and battlefield kinetic and non-kinetic effects. This project sustains video equipment, appended data collection devices, and embedded software used to collect and analyze system performance during test. The project also funds the technical expertise and hardware to sustain cyber security of OTC's technology capabilities; technology tools across OTC require Risk Management Framework (RMF) accreditation.</p> <p>FY 2024 Plans: Funds support all OTC Test Technology Support Service contracts that sustain existing technology systems to provide a realistic multi-domain operational environment with modern kinetic and non-kinetic battlefield effects, provide test monitoring and control,</p>		13.211	13.865	14.028

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605712A / <i>Support of Operational Testi ng</i>	Project (Number/Name) V02 / <i>ATEC Activities</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
and provide the data collection and analysis tools for the Army modernization efforts at OTC's all five geographical locations at Fort Hood, Fort Bragg, Fort Bliss, Fort Sill and Fort Huachuca. <i>FY 2025 Plans:</i> Funds support all OTC Test Technology Support Service contracts that sustain existing technology systems to provide a realistic multi-domain operational environment with modern kinetic and non-kinetic battlefield effects, provide test monitoring and control, and provide the data collection and analysis tools for the Army modernization efforts at OTC's all five geographical locations at Fort Cavazos, Fort Liberty, Fort Bliss, Fort Sill and Fort Huachuca. <i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase due to planned Lifecycle effort and fuel pricing.			
Accomplishments/Planned Programs Subtotals	69.879	75.133	76.088

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605716A / <i>Army Evaluation Center</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	67.058	71.118	73.220	-	73.220	70.274	71.621	78.881	79.669	0.000	511.841
302: <i>Army Evaluation Center</i>	-	67.058	71.118	73.220	-	73.220	70.274	71.621	78.881	79.669	0.000	511.841

A. Mission Description and Budget Item Justification

This funding line supports test and evaluation (T&E) of Army Modernization Priority Programs.

This Program Element (PE) provides the resources to operate the Army Evaluation Center (AEC), the Army's independent evaluator for Army Futures Command (AFC) Cross Functional Team (CFT) efforts and all other Army and Joint Service programs (currently over 700 programs in total). AEC is the lead agent to plan, direct, and evaluate all required program testing and is the unbiased, independent authority for reporting on system progress. AEC is the focal point in test strategy development, system safety verification, and data analyses from early developmental consumer tests through operational tests. AEC develops Critical Operational Issues and Criteria (COIC) in conjunction with AFC to narrow the focus of testing to what is essential. AEC reviews and shapes system requirements to ensure they do not drive unnecessary testing. AEC provides critical independent assessments on system effectiveness, suitability, survivability, and safety to include cybersecurity; electronic warfare (EW); artificial intelligence (AI); safety of materiel solutions; and viability of emerging technologies and engineering change proposals to support major acquisition/fielding decisions including but not limited to acquisition milestones, materiel changes, and materiel releases.

AEC is responsible for all assigned developmental and independent operational evaluations of Army materiel, information, and acquisition systems. AEC must remain independent from the development community. AEC assists the Chief of Staff of the Army decision making process by supporting Army Capabilities Integration Development System (A-CIDS) processes as well as supporting the AFC through the CFT concept. AEC evaluates operational effectiveness by determining if the system provides intended benefits to the Force. AEC assesses, confirms, and releases system safety for use by Soldiers upon fielding and during government sponsored experiments and demonstrations. AEC determines impacts to readiness through Human Systems Integration (HSI), Unit Systems Integration (USI), and Army Systems Integration (ASI), as well as doctrine, organization, training, materiel, leadership and education, personnel, facilities, and policy (DOTMLPF-P) impacts. AEC evaluates ballistics survivability and lethality missions, adversarial assessments/threat computer network operations (TCNO), cooperative vulnerability and penetration assessments (CVPA), and EW (attack, support) countermeasures in support of the National Defense Authorization Act (NDAA) 2016 Section 1647, establishment of Cybersecurity and Electromagnetic Affects (CEMA). AEC manages, plans, and executes Information Assurance (IA) operational assessments during annual Combatant Command and Army Service exercises in support of the congressionally mandated Office of the Secretary of Defense (OSD) Director, Operational Test and Evaluation (DOT&E) assessment, and performs operational test agency (OTA) duties for the Ballistic Missile Defense System (BMDS).

This PE funds direct civilian labor and minimum non-labor requirements to include: personnel training, career development, supplies and equipment, hardware, software, temporary duty (TDY) travel, and other external Other Government Agency (OGA) support as well as methodology development required to evaluate emerging technologies and instrumentation requirements.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605716A / <i>Army Evaluation Center</i>
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AEC consists of seven directorates - Analytics, Artificial Intelligence, and Digital Engineering Evaluation Directorate; Aviation-Fires Evaluation Directorate; Ballistic Missile Defense Evaluation Directorate (primarily funded by the Missile Defense Agency); Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance Evaluation Directorate; Mounted Systems Evaluation Directorate; Soldier Evaluation Directorate; and Survivability Evaluation Directorate - and a lean headquarters element as AEC receives staff services from the Army Test and Evaluation Command (ATEC) Headquarters (HQ). AEC provides direct support to AFC with personnel geographically co-located with eight CFTs - Long Range Precision Fires; Next Generation Combat Vehicle; Future Vertical Lift; Network; Assured Positioning, Navigation, and Timing; Air and Missile Defense; Soldier Lethality; and Synthetic Training Environment - and the Rapid Capabilities - Critical Technology Office and the Artificial Intelligence Task Force.

The AEC primary competencies are: identify what decision makers need to know; plan and direct T&E strategies; evaluate operational effectiveness, suitability, survivability, and safety; and provide senior leadership unbiased advice on Army and Joint Service programs.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	67.058	71.118	73.112	-	73.112
Current President's Budget	67.058	71.118	73.220	-	73.220
Total Adjustments	0.000	0.000	0.108	-	0.108
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	0.108	-	0.108

Change Summary Explanation

Minor increase in FY25 funding from the previous PB to the current PB due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605716A / Army Evaluation Center				Project (Number/Name) 302 / Army Evaluation Center			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
302: Army Evaluation Center	-	67.058	71.118	73.220	-	73.220	70.274	71.621	78.881	79.669	0.000	511.841
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides the resources to operate the Army Evaluation Center (AEC), the Army's independent evaluator for Army Futures Command (AFC) Cross Functional Team (CFT) efforts and all other Army and Joint Service programs (currently over 700 programs in total). AEC is the lead agent to plan, direct, and evaluate all required program testing and is the unbiased, independent authority for reporting on system progress. AEC is the focal point in test strategy development, system safety verification, and data analyses from early developmental consumer tests through operational tests. AEC develops Critical Operational Issues and Criteria (COIC) in conjunction with AFC to narrow the focus of testing to what is essential. AEC reviews and shapes system requirements to ensure they do not drive unnecessary testing. AEC provides critical independent assessments on system effectiveness, suitability, survivability, and safety to include cybersecurity and electronic warfare (EW); artificial intelligence (AI); safety of materiel solutions; and viability of emerging technologies and engineering change proposals to support major acquisition/fielding decisions including but not limited to acquisition milestones, materiel changes, and materiel releases.

AEC is responsible for all assigned developmental and independent operational evaluations of Army materiel, information, and acquisition systems. AEC must remain independent from the development community. AEC assists the Chief of Staff of the Army decision making process by supporting Army Capabilities Integration Development System (A-CIDS) processes as well as supporting the AFC through the CFT concept. AEC evaluates operational effectiveness by determining if the system provides intended benefits to the Force. AEC assesses, confirms, and releases system safety for use by Soldiers upon fielding and during government sponsored experiments and demonstrations. AEC determines impacts to readiness through Human Systems Integration (HSI), Unit Systems Integration (USI), and Army Systems Integration (ASI), as well as doctrine, organization, training, materiel, leadership and education, personnel, facilities and policy (DOTMLPF-P) impacts. AEC evaluates ballistics survivability and lethality missions, adversarial assessments/threat computer network operations (TCNO), cooperative vulnerability and penetration assessments (CVPA), and EW (attack, support) countermeasures in support of the National Defense Authorization Act (NDAA) 2016 Section 1647, establishment of Cybersecurity and Electromagnetic Affects (CEMA). AEC manages, plans, and executes Information Assurance (IA) operational assessments during annual Combatant Command and Army Service exercises in support of the congressionally mandated Office of the Secretary of Defense (OSD) Director, Operational Test and Evaluation (DOT&E) assessment, and performs operational test agency (OTA) duties for the Ballistic Missile Defense System (BMDS).

This Project funds direct civilian labor and minimum non-labor requirements to include: personnel training, career development, supplies and equipment, hardware, software, temporary duty (TDY) travel, and other external Other Government Agency (OGA) support as well as methodology development required to evaluate emerging technologies and instrumentation requirements.

AEC consists of seven directorates - Analytics, Artificial Intelligence, and Digital Engineering Evaluation Directorate; Aviation-Fires Evaluation Directorate; Ballistic Missile Defense Evaluation Directorate (primarily funded by the Missile Defense Agency; Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance Evaluation Directorate; Mounted Systems Evaluation Directorate; Soldier Evaluation Directorate; and Survivability Evaluation Directorate - and a lean headquarters element as AEC receives staff services from the Army Test and Evaluation Command (ATEC) Headquarters (HQ). AEC provides direct support to AFC with personnel geographically co-located with eight CFTs - Long Range Precision Fires; Next Generation Combat Vehicle; Future Vertical Lift; Network; Assured

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605716A / Army Evaluation Center	Project (Number/Name) 302 / Army Evaluation Center
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Positioning, Navigation, and Timing; Air and Missile Defense; Soldier Lethality; and Synthetic Training Environment - and the Rapid Capabilities-Critical Technology Office and the Artificial Intelligence Task Force.

The AEC primary competencies are: identify what decision makers need to know; plan and direct test and evaluation (T&E) strategies; evaluate operational effectiveness, suitability, survivability, and safety; and provide senior leadership unbiased advice on Army and Joint Service programs.

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

	FY 2023	FY 2024	FY 2025
<p>Title: Army Evaluation Center Civilian Pay</p> <p>Description: AEC provides integrated technical and operational evaluations and continuous evaluation of assigned weapon systems and major automated information systems for major milestone decisions, materiel changes, and materiel releases in support of the Army Acquisition Executive and force development. AEC develops the evaluation strategy, designs technical and operational tests, and evaluates the test results to address the combat effectiveness, suitability, survivability, and safety factors pertinent to the decision process for more than 700 systems/programs across the Army, other Services, and Agencies. AEC prepares integrated System Evaluation Plans and conducts integrated technical and operational evaluations for all assigned systems. In support of real-world events, AEC provides Capability and Limitation Reports and safety verification documents. AEC assists the Chief of Staff of the Army decision making process by supporting the Army Capabilities Integration Development System (A-CIDS) processes.</p> <p>AEC exercises enterprise authority to prioritize, synchronize, and resource evaluations and assessments in support of Army Modernization and in accordance with AFC priorities. As a principal member of the ATEC Board of Directors (BOD), AEC partners with other ATEC organizations to provide enterprise oversight and decision making and coordinate enterprise initiatives to accelerate and reduce the cost of evaluations and assessments. AEC supports the A-CIDS process by reviewing and shaping COIC that are operationally relevant, total system focused, and that can be evaluated while driving essential T&E. AEC provides direct support to AFC by resourcing coordinators geographically co-located with eight CFTs, the Rapid Capabilities Critical Technology Office (RCCTO), and the AI Task Force. AEC resources eight integrators dedicated to each CFT to lead synchronization efforts across the T&E enterprise. AEC enables rapid capability development by partnering with and dedicating coordination efforts with RCCTO. AEC employs innovative and adaptive T&E processes through applying flexibility given limited resources and shifting priorities while leveraging all credible data sources. AEC develops and deploys enhanced T&E capabilities focusing on modernizing T&E capabilities while refining the investment process. AEC partners with analytic and strategic partner organizations to share resources, gain evaluation and assessment efficiencies, and increase capacity to support AFC. AEC applies new and innovative techniques in data mining, data visualization, and presentation of large data sets; and develops methodologies for the evaluation of artificial intelligence and hypersonic weapons.</p> <p>FY 2024 Plans: Will continue to fund operational costs for AEC including civilian pay (approximately 91% of AEC's total budget is civilian labor). Develop and apply new techniques in cloud computing, data mining, data visualization, and presentation of large data sets in</p>	61.620	64.489	66.385

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605716A / Army Evaluation Center	Project (Number/Name) 302 / Army Evaluation Center
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
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<p>support of Army Data Transformation initiatives. Continue to research and develop evaluation metrics for new and emerging technologies in AI/ML, Data Management and Analysis, Virtual/Augmented Reality, Cybersecurity, and aerospace operations. Develop future leaders and invest in improved evaluation tools and capabilities in emerging technologies. Support Army Modernization priorities by providing dedicated support to Army Futures Command CFT concept, RCCTO, and the AI Task Force. Lead Project Convergence planning, execution, and reporting activities through its Sensor to Shooter cell. Invest in new modernization efforts to support increasing demands for classified information processing in direct support of Army modernization priorities.</p> <p>FY 2025 Plans: Will continue to fund civilian pay. More than 90% of AEC's total budget is for civilian labor. Will develop and apply new techniques in cloud computing, data mining, data visualization, and presentation of large data sets in support of Army Data Transformation initiatives. Continue to research and develop evaluation metrics for new and emerging technologies in AI/ML, Data Management and Analysis, Virtual/Augmented Reality, Cybersecurity, and aerospace operations. Develop future leaders and invest in improved evaluation tools and capabilities in emerging technologies. Support Army Modernization priorities by providing dedicated support to Army Futures Command CFT concept, RCCTO, AI Task Force, and Contested Logistics. Lead Capstone planning, execution, and reporting activities through its Sensor to Shooter cell. Invest in new modernization efforts to support increasing demands for classified information processing in direct support of Army modernization priorities.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increased funding due to revised economic assumptions.</p>			
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<p>Title: Army Evaluation Center Operations Support</p> <p>Description: AEC operational support costs. Contract services include facilities maintenance and repair and custodial support to ensure safety, health and hygiene of the AEC workforce; sustainment services such as grass cutting, snow removal, and security for AEC facilities; software licenses required for scientific and statistical methods in developing rigorous, defensible test plans and evaluating the results; training for the highly technical civilian and military workforce (484 total number); life cycle replacement of IT equipment, printers, VTC equipment, wireless communications; contract support services for IT helpdesk, network, cybersecurity, etc.; and annual consumable supplies.</p> <p>FY 2024 Plans: Funding will continue to support AEC operational support costs including contract support, software licenses, training, life cycle replacement of equipment.</p> <p>FY 2025 Plans:</p>	5.438	6.629	6.835
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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605716A / <i>Army Evaluation Center</i>	Project (Number/Name) 302 / <i>Army Evaluation Center</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Funding will continue to support AEC operational support costs including contract support, software licenses, training and development, life cycle replacement of equipment, and investment in secure information processing/storage facilities, equipment, and capabilities.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding increase supports the planned lifecycle of the effort and economic assumptions.			
Accomplishments/Planned Programs Subtotals	67.058	71.118	73.220

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

Remarks

D. Acquisition Strategy
N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605718A / <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	5.874	11.204	11.257	-	11.257	11.262	11.296	11.364	11.478	0.000	73.735
S02: <i>HQDA DECISION SUPPORT TOOLS & SERVICES</i>	-	-	-	8.334	-	8.334	8.334	8.334	8.365	3.390	0.000	36.757
S03: <i>Analysis M&S Tools and Services</i>	-	5.874	11.204	2.923	-	2.923	2.928	2.962	2.999	8.088	0.000	36.978

Note

Funding realigned from Project S03/Analysis M&S Tools and Services to Project S02/HQDA DECISION SUPPORT TOOLS & SERVICES in FY 2025.

A. Mission Description and Budget Item Justification

This Program Element (PE) promotes the Army's Modeling and Simulation (M&S) strategy, defined by five guiding priorities: (1) formulate Army M&S policies; (2) develop and employ management processes for models, simulations and data; (3) develop M&S standards, architectures, networks and environments; (4) develop/employ new M&S tools and simulation technology; (5) develop an M&S workforce. Specifically, this PE focuses on priorities 3 and 4 to include the modernization of the Center for Army Analysis (CAA) models, simulations, and analytic capabilities.

M&S Standards, Architectures, Networks and Environments: The consistent use of standards, architectures, networks and environments advances the goal of interoperability. The Army coordinates with Joint, Interagency, Intergovernmental, and Multinational (JIIM) partners along with industry and academia to develop/employ standards that promote collaboration and facilitate the sharing of tools, data and information. The Army oversees procedures and processes for the appropriate use of standards to foster common formats and increase M&S and data reuse. The Army ensures these standards, architectures, networks and environments are readily accessible and can be reliably applied by users.

M&S Tools and Simulation Technology: The Army must have credible M&S tools and data to support the full range of Army organizational missions and functional responsibilities. M&S results that are timely and credible enhance decision making. The Army must develop and accredit reliable M&S tools so that decision makers and senior leaders benefit from the results and thus support the continued development, integration and use of such tools. To ensure credibility and reliability of results, M&S managers, developers and users must make the capabilities, constraints, limitations and assumptions of their M&S tools readily accessible. PE 0605718A provides for the development and employment of tools in the form of models, simulations and data that support the full range of Army missions and deliver timely information to Army senior leaders. Moreover, these tools can be documented, verified, validated and accredited for their intended purpose in order to provide timely, credible results.

Until FY25, this program element will continue to support modernization of the analytic tools utilized by Center for Army Analysis. CAA conducts analysis of senior-level decisions for current and future national security issues. The suite of models, simulations, and analytic tools must remain relevant, current, and responsive to the ever-changing Operational Environment in order to support effectively the Army's analytic requirements.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605718A / <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i>
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This program element supports the Center for Army Analysis (CAA) mission to conduct decision support analysis across the spectrum of conflict in joint and multinational contexts for the purpose of supporting senior level decisions on current and future national security issues. In partial furtherance of this mission, CAA leverages a theater campaign model representing joint and combined operational maneuver that requires updating to suitably reflect emerging operational concepts such as Multi-Domain Operations.

This program element enables realization of a modernized theater campaign analysis model that provides a tractable, flexible, and extensible representation of Army capabilities and their effects on major combat operations in crisis and conflict.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	6.097	11.204	11.234	-	11.234
Current President's Budget	5.874	11.204	11.257	-	11.257
Total Adjustments	-0.223	0.000	0.023	-	0.023
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.223	-			
• Adjustments to Budget Years	-	-	0.023	-	0.023

Change Summary Explanation

Minor increase in FY25 funding from the previous PB to the current PB due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605718A / Army Modeling & Sim X-Cmd Collaboration & Integ	Project (Number/Name) S02 / HQDA DECISION SUPPORT TOOLS & SERVICES
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
S02: HQDA DECISION SUPPORT TOOLS & SERVICES	-	-	-	8.334	-	8.334	8.334	8.334	8.365	3.390	0.000	36.757
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Funding realigned from Project S03/Analysis M&S Tools and Services to Project S02/HQDA DECISION SUPPORT TOOLS & SERVICES in FY 2025.

A. Mission Description and Budget Item Justification

HQDA Decision Support Tools and Services assesses existing modeling and simulation tools, available data sources, and completed and ongoing research in order to implement adapt, and/or create algorithms and software that improve the accuracy and relevance of theater campaign analysis performed in joint and combined multi-domain contexts.

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

	FY 2023	FY 2024	FY 2025
Title: Campaign Model Modernization	-	-	8.334
Description: This project assesses extant modeling and simulation tools, available data sources, and completed and ongoing research in order to implement, adapt, and/or create algorithms and software improving the accuracy and relevance of theater campaign analysis performed in joint and combined multi-domain contexts.			
FY 2025 Plans: FY25 funds will be applied against efforts to continue assessment of currently available models for suitability, transitioning where and as appropriate to constructive efforts to build a campaign analysis model that reflects multi-domain operations with suitable precision and accuracy. Efforts may incorporate elements of research (to include subject matter expert interviews), systems engineering, software architecture, and software engineering; FY25 efforts will likely begin shifting toward software architecture and engineering.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding realigned from Project S03/Analysis M&S Tools and Services.			
Accomplishments/Planned Programs Subtotals	-	-	8.334

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

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605718A / Army Modeling & Sim X-Cmd d Collaboration & Integ	Project (Number/Name) S02 / HQDA DECISION SUPPORT TOOLS & SERVICES

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

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605718A / Army Modeling & Sim X-Cmd Collaboration & Integ				Project (Number/Name) S03 / Analysis M&S Tools and Services			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
S03: Analysis M&S Tools and Services	-	5.874	11.204	2.923	-	2.923	2.928	2.962	2.999	8.088	0.000	36.978
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project has two functions:

Function 1 (Priority 3 of the "Army Modeling and Simulation (M&S) Strategy") -- Develop M&S standards, architectures, networks and environments that promote sharing, interoperability, access, and reliable application of tools, formats, data and information among/for users.

Function 2 (priority 4 of the "Army M&S Strategy") -- Develop and improve tools and technology in the form of models, simulations and data that support the full range of Army interests and deliver timely information to enhance effective decision making. These tools can be documented, verified, validated and accredited for their intended purpose.

Resources under Project S03 support the M&S communities (Acquisition, Analysis, Experimentation, Test & Evaluation, Training, Intelligence) at the enterprise level through enabling efforts. These efforts include the following: (a) design models, simulations, data and tools that are resident within one organization but reusable and trusted by M&S users and specialists across the Army M&S enterprise; (b) leverage industry and academia; (c) promote interoperability within M&S and between M&S and operational capabilities.

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

	FY 2023	FY 2024	FY 2025
Title: Develop M&S tools and technology	3.862	7.639	1.989
Description: Develop and improve tools and technology in the form of models, simulations and data that support the full range of Army interests and deliver timely information to enhance effective decision making. These tools can be documented, verified and validated for their intended purpose.			
FY 2024 Plans: FY24 funds will be distributed among activities that promote the fourth priority of the Army M&S Strategy: develop M&S tools and technology. Specific FY24 plans include: a.) development of an Army Fires Community AEM; b.) development of network modeling scenarios and models for the test/evaluation and analysis network communities; c.) update and enhance intelligence models for existing simulations and Mission Command Information Systems (MCISs). Includes modernization and life cycle management of CAA's suite of models, simulations, data management, and analytic tools.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605718A / <i>Army Modeling & Sim X-Cmd Collaboration & Integ</i>	Project (Number/Name) S03 / <i>Analysis M&S Tools and Services</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>FY25 funds will be distributed among activities that promote the fourth priority of the Army M&S Strategy: develop M&S tools and technology. Specific FY25 plans include: a.) development of an Army Fires Community AEM; b.) development of network modeling scenarios and models for the test/evaluation and analysis network communities; c.) update and enhance intelligence models for existing simulations and Mission Command Information Systems (MCISs). Includes modernization and life cycle management of CAA's suite of models, simulations, data management, and analytic tools.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding due to realignment from 665718S03 to 665718S02 in support of modernization of analytic tools.</p>			
<p>Title: Develop M&S standards, architectures, networks and environments</p> <p>Description: Develop M&S standards, architectures, networks and environments that promote sharing, interoperability, access, and reliable application of tools, formats, data and information among/for users.</p> <p>FY 2024 Plans: FY23 funds will be distributed among activities that promote the third priority of the Army M&S Strategy: develop M&S standards, architectures, networks and environments. a.) development and access to cyber/electronic warfare simulated environments, b.) development of an enhanced fires training and testing environment, c.) development of an OE signal architecture, d.) enhancement and access to a network modeling architecture that bridges multiple modeling and simulation environments. FY22 M&S standards, architectures, networks and environment plans will be developed to maximize reuse across the Army M&S-enabled communities. Includes modernization and life cycle management of CAA's suite of models, simulations, data management, and analytic tools.</p> <p>FY 2025 Plans: FY25 funds will be distributed among activities that promote the fourth priority of the Army M&S Strategy: develop M&S tools and technology. Specific FY25 plans include the following: a.) development of an Army Fires Community AEM, b.) development of network modeling scenarios and models for the test/evaluation and analysis network communities, c.) update and enhance intelligence models for existing simulations and Mission Command Information Systems (MCISs). Includes modernization and life cycle management of CAA's suite of models, simulations, data management, and analytic tools.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding due to realignment from PE 0605718A/S03 to PE 0605718A/S02 in support of modernization of analytic tools.</p>	2.012	3.565	0.934
Accomplishments/Planned Programs Subtotals	5.874	11.204	2.923

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605718A / Army Modeling & Sim X-Cmd d Collaboration & Integ	Project (Number/Name) S03 / Analysis M&S Tools and Services

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	88.780	93.895	91.895	-	91.895	92.547	93.621	94.747	95.843	0.000	651.328
EU9: <i>Army Science Board</i>	-	2.216	2.319	2.348	-	2.348	2.351	2.376	2.402	2.426	0.000	16.438
M02: <i>Med Cmd Spt (Non-AMHA)</i>	-	11.729	12.108	11.685	-	11.685	11.940	12.097	12.361	12.517	0.000	84.437
M15: <i>ARI Mgmt/ADM Act</i>	-	5.914	5.951	6.200	-	6.200	6.251	6.318	6.389	6.456	0.000	43.479
M16: <i>Standardization Groups</i>	-	4.304	5.044	5.038	-	5.038	4.983	4.878	4.892	4.940	0.000	34.079
M23: <i>US Army Corps of Engineers Base Operations</i>	-	35.459	37.295	35.251	-	35.251	35.580	36.216	36.786	37.269	0.000	253.856
M42: <i>ARDEC Cmd/Ctr Support</i>	-	7.632	8.105	8.122	-	8.122	8.132	8.219	8.308	8.391	0.000	56.909
M44: <i>CECOM Cmd/Ctr Spt</i>	-	4.912	5.170	5.180	-	5.180	5.186	5.242	5.299	5.352	0.000	36.341
M46: <i>AMCOM Cmd/Ctr Spt</i>	-	4.007	4.223	4.232	-	4.232	4.236	4.282	4.328	4.371	0.000	29.679
M47: <i>TACOM Cmd/Ctr Spt</i>	-	3.942	4.214	4.222	-	4.222	4.227	4.271	4.318	4.361	0.000	29.555
M55: <i>Edgewood Chemical Biological Center</i>	-	4.095	4.631	4.745	-	4.745	4.756	4.786	4.697	4.744	0.000	32.454
M58: <i>SECOM CMD/CTR Spt</i>	-	2.370	2.440	2.446	-	2.446	2.449	2.474	2.502	2.527	0.000	17.208
M76: <i>Armament Group Support</i>	-	2.200	2.395	2.426	-	2.426	2.456	2.462	2.465	2.489	0.000	16.893

A. Mission Description and Budget Item Justification

This Program Element (PE) supports the non-Army Management Headquarters Activity (non-AMHA) Research, Development, Test, and Evaluation (RDTE) functions in support of the operation and management of United States (U.S.) Army Combat Capabilities Development Command (DEVCOM) Centers, not identifiable with specific research and development projects. This PE also supports the management and operation of multiple, globally located DEVCOM International Technology Centers (ITCs). The ITCs play an integral role in the U.S. Army efforts for international cooperative research, development and interoperability, and fulfill international memoranda of understanding requirements.

Programwide activities also include: Army Science Board studies; non-AMHA Medical Command support at the U.S. Army Medical Research and Development Command (USAMRDC); non-AMHA management and administrative functions at the U.S. Army Research Institute (ARI); and travel and administrative support to the North Atlantic Treaty Organization (NATO) Army Armaments Group (NAAG).

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	89.793	93.895	94.897	-	94.897
Current President's Budget	88.780	93.895	91.895	-	91.895
Total Adjustments	-1.013	0.000	-3.002	-	-3.002
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.013	-			
• Adjustments to Budget Years	-	-	-3.002	-	-3.002

Change Summary Explanation

Funding decrease to support higher priority efforts within the Army.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) EU9 / <i>Army Science Board</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
EU9: <i>Army Science Board</i>	-	2.216	2.319	2.348	-	2.348	2.351	2.376	2.402	2.426	0.000	16.438
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Science Board (ASB) is a federal advisory committee, organized under the Federal Advisory Committee Act (FACA) and the Government in the Sunshine Act, which provides the Secretary of the Army and Secretary of Defense with independent and transparent advice and recommendations on matters relating to scientific, technical, manufacturing, acquisition, logistics, and business management functions. The ASB dates to November 1951 when the Secretary of the Army, Honorable Frank Pace Jr., appointed twelve outstanding scientists and industrialists to a scientific advisory panel to assist him and the Army's leadership in creating an effective, economical, and progressive fighting force using existing technology and industrial resources. Three years later, this panel was expanded and officially designated the Army Scientific Advisory Panel (ASAP), with its first formal meeting held on November 16, 1954. In 1977, with the passage of FACA, the ASB was created to replace the ASAP.

The ASB provided the Army with a resource of world-class scientists, engineers, technologists and operational experts as well as business, policy and managerial specialists from the private sector, academia, non-Department of Defense (DoD) government agencies and former senior military officers. Its members volunteered their expertise and time to address those critical national security challenges for which the Army's leadership seeks independent and unbiased technical advice. The ASB focused on issues of importance to large segments of the Army, and its products were delivered in a candid, independent and timely manner.

The Board is composed of 20 voting and a number of non-voting members, each serving three-year terms, and consultants who serve one-year terms. Membership is carefully monitored to ensure that diverse disciplines and points of view are represented. The Secretary of the Army appointed the Chair and Vice Chair from the ASB membership. ASB membership was augmented by consultants who were appointed to provide specialized expertise for ASB studies.

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

	FY 2023	FY 2024	FY 2025
Title: Army Science Board	2.216	2.319	2.348
Description: The ASB Charter sets the estimated number of Board meetings at four per year. Board members serve without compensation, with the exception of reimbursement for official Board-related travel and per diem. Funds are therefore required to facilitate Board activities and related subcommittee activities. The ASB Charter states that annual requirements will typically entail a personnel cost of seven Full-Time Equivalents.			
Currently, the Secretary of the Army has approved four permanent subcommittees to the Board:			
1) The Army Science Board Basic Science and Disruptive Technologies Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's basic research and disruptive technologies, including Soldier performance			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) EU9 / <i>Army Science Board</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>enhancement, cognition improvement, and training; autonomous systems and human-machine teaming; Chemical, Biological, Radiological, Nuclear and high-yield Explosives (CBRNE); and counter Weapons of Mass Destruction.</p> <p>2) The Army Science Board Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's C4ISR core competency, including the tactical edge Command, Control, and Communications (C3), situational awareness overmatch, and electronic warfare.</p> <p>3) The Army Science Board Systems Engineering, Integration, and Sustainment Subcommittee is composed of not more than 15 members and addresses relating to the Army's core competency in systems engineering and integration; advanced prototyping and experimentation in operational environments; and sustainment, including engineered resilient systems, agile logistics and health management. These competencies are essential to the performance of the entire acquisition community.</p> <p>4) the Army Science Board Weapon Systems Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's weapon systems core competency in: Rotorcraft Design Synthesis & Performance Assessment (DS&PA) and airworthiness/safety; ground combat vehicle DS&PA, Soldier interaction, and system integration; lethality, including impact physics, energetics, warhead DS&PA, effects modeling and simulation; survivability and protection, including armor and balanced approach for detection/hit/kill avoidance; and air and missile defense DS&PA, precision fires, seekers, and precision guidance.</p> <p><i>FY 2024 Plans:</i> Conduct four to six studies on behalf of the Secretary of the Army; likely in areas of Basic Science and Disruptive Technology; Weapons Systems; C4ISR; and Systems Engineering, Integrations, and Sustainment or other concerns related to the future of the force.</p> <p><i>FY 2025 Plans:</i> Conduct four to six studies on behalf of the Secretary of the Army; likely in areas of Basic Science and Disruptive Technology; Weapons Systems; C4ISR; and Systems Engineering, Integrations, and Sustainment or other concerns related to the future of the force.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase in funding change reflects planned lifecycle of this effort.</p>			
Accomplishments/Planned Programs Subtotals	2.216	2.319	2.348

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

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army Date: March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) EU9 / <i>Army Science Board</i>
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C. Other Program Funding Summary (\$ in Millions)

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M02 / Med Cmd Spt (Non-AMHA)			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M02: Med Cmd Spt (Non-AMHA)	-	11.729	12.108	11.685	-	11.685	11.940	12.097	12.361	12.517	0.000	84.437
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides funding for authorized civilian workforce performing medical research, development, acquisition management and oversight that support the medical Research, Development, Test, and Evaluation (RDTE) programs at the United States (U.S.) Army Medical Research and Development Command (USAMRDC), Fort Detrick, Maryland to: (1) perform planning, programming, and budgeting; (2) manage resources; and (3) ensure compliance with U.S. Food and Drug Administration (FDA) and other regulatory and safety requirements. It also provides for continued operations of contracting and acquisition management functions performed in support of the USAMRDC Medical RDTE Program.

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

	FY 2023	FY 2024	FY 2025
Title: Civilian Authorized Salaries and other operational requirements	11.729	12.108	11.685
Description: Funding is provided to the USAMRDC for Medical Research Development Acquisition (RDA) Management and Oversight to include the payroll of civilians as well as nominal operating expense. Expertise helps establish and maintain the capabilities that Army medicine needs to sustain life, limb, and eyesight for our warfighters. Civilian labor performs centralized management of Medical RDA (many areas required by law and/or regulation) including animal & human research protections, health and safety compliance, environmental management, and U.S. Food and Drug Administration regulatory compliance, legal support (including intellectual property protection), quality assurance, contracting services, personnel management, and planning, programming, and budgeting, and execution management.			
FY 2024 Plans: Will fund civilian salaries and associated management and administrative expenses (support contracts, supplies, equipment, travel, etc.) at USAMRDMC.			
FY 2025 Plans: Will fund civilian salaries and associated management and administrative expenses (support contracts, supplies, equipment, travel, etc.) at USAMRDMC.			
FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding change reflects planned lifecycle of this effort.			
Accomplishments/Planned Programs Subtotals	11.729	12.108	11.685

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

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities	Project (Number/Name) M02 / Med Cmd Spt (Non-AMHA)

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

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M15 / <i>ARI Mgmt/ADM Act</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M15: <i>ARI Mgmt/ADM Act</i>	-	5.914	5.951	6.200	-	6.200	6.251	6.318	6.389	6.456	0.000	43.479
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The United States (U.S.) Army Research Institute for the Behavioral and Social Sciences (ARI) is the only Science and Technology (S&T) laboratory that conducts research to enhance the Soldier lifecycle (e.g., selection, assignment, training, leader development) and human relations (e.g., culture of dignity, respect, and inclusion). This Project supports the non-Army Management Headquarters Activity (non-AMHA) management and administrative functions to enable ARI to accomplish its research mission and includes activities such as budget execution, procurement oversight, Research, Development, Test, and Evaluation (RDTE) program planning and evaluation, management control, security/safety, logistics, information technology, and personnel/manpower execution and oversight. ARI's behavioral and social science research provides effective non-materiel solutions to help the Army adjust to changes in force size and structure, a variety of mission demands and contexts, challenges in human relations, and budgetary constraints.

The cited work is consistent with the Under Secretary of Defense (Research and Engineering) priority focus areas, the Army Vision, the Army's Talent Management Strategy, and the Army Modernization Strategy.

Work is performed by ARI at Fort Belvoir, VA.

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

	FY 2023	FY 2024	FY 2025
Title: ARI Management/Administrative Actions	5.914	5.951	6.200
Description: Supports the non-AMHA management and administrative functions. This project provides enduring management and support functions for the execution of ARI's science and technology activities.			
FY 2024 Plans: Will provide operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ARI as an STRL, to include emphasis on the hardware and software requirement to build and sustain data analytic capabilities throughout the laboratory.			
FY 2025 Plans: Will provide operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ARI as an STRL, to include emphasis on the hardware and software requirement to build and sustain data analytic capabilities throughout the laboratory.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M15 / <i>ARI Mgmt/ADM Act</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Funding increase reflects increase in operating costs necessary to conduct behavioral and social science research program.			
Accomplishments/Planned Programs Subtotals	5.914	5.951	6.200

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M16 / <i>Standardization Groups</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M16: <i>Standardization Groups</i>	-	4.304	5.044	5.038	-	5.038	4.983	4.878	4.892	4.940	0.000	34.079
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports ten International Technology Centers (ITCs) in North America, South America, Asia, and Europe for personnel, travel and overhead costs, leases on buildings, and mandatory permanent change of station.

The mission of the ITCs is to support the United States (U.S.) Army Rationalization, Standardization and Interoperability (RSI) mission around the globe as specified in Army Regulation (AR) 34-1 "Interoperability" and AR 70-41 "Armaments Cooperation". ITCs promote interoperability and represent the U.S. Army in their geographic areas of responsibility (AOR) with foreign ministries of defense on Armaments Cooperation programs. ITCs also facilitate U.S. Army interaction in their geographic AOR with foreign non-governmental entities, such as foreign private industry and academia.

Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM).

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

	FY 2023	FY 2024	FY 2025
Title: International Technology Centers Management	4.304	5.044	5.038
Description: The overseas presence of the ITCs will enable the establishment of international agreements, help to identify novel international technologies/research of mutual benefits, and promote interoperability with U.S. allies and partners. This activity funds the U.S. Army Rationalization, Standardization and Interoperability (RSI) mission conducted by the ITCs around the globe. These funds support the infrastructure, personnel and travel requirements to support the mission.			
FY 2024 Plans: Will continue to promote interoperability by representing the U.S. Army's interests in engagements with foreign ministries of defense on research programs that address, harmonize and advance technology development, and materiel interoperability. Will facilitate U.S. Army interaction with foreign non-government entities, such as foreign private industry and academia. Will continue to supervise the ITCs to promote interoperability by assisting in establishing international agreements that address, harmonize, and advance technology development, materiel interoperability, logistics, concepts, doctrine, organization, and training in multinational operations.			
FY 2025 Plans: Will promote interoperability by representing the U.S. Army's interests in engagements with foreign ministries of defense on research programs that address, harmonize and advance technology development, and materiel interoperability. Will facilitate U.S. Army interaction with foreign non-government entities, such as foreign private industry and academia. Will supervise the ITCs			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M16 / <i>Standardization Groups</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
to promote interoperability by assisting in establishing international agreements that address, harmonize, and advance technology development, materiel interoperability, logistics, concepts, doctrine, organization, and training in multinational operations.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Decrease in funding change reflects planned lifecycle of this effort.			
Accomplishments/Planned Programs Subtotals	4.304	5.044	5.038

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M23 / <i>US Army Corps of Engineers Base Operations</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M23: <i>US Army Corps of Engineers Base Operations</i>	-	35.459	37.295	35.251	-	35.251	35.580	36.216	36.786	37.269	0.000	253.856
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides funding for authorized civilian workforce performing engineer research, development, management and oversight that support the engineer Research, Development, Test, and Evaluation (RDTE) programs at the United States (U.S.) Engineer Research and Development Center (ERDC). This Project supports the non-Army Management Headquarters Activity (non-AMHA) management and administrative functions to enable ERDC to accomplish its research mission and includes activities such as procurement oversight, RDTE programming and budget execution, management control and oversight, security/safety, information management and technology, personnel/manpower execution and oversight, research laboratory/facility management and maintenance, and High Performance Computing Modernization Program (HPCMP) facility operations and management

ERDC research in civil and military engineering, blast and weapons effects, battlespace terrain mapping and characterization, computational prototyping of military platforms, and cold regions science and engineering provides effective non-materiel and materiel solutions to enable the Army to achieve its modernization priorities of Air and Missile Defense, Next Generation Combat Vehicle, Future Vertical Lift, Network, Long Range Precision Fires, and Soldier Lethality.

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

	FY 2023	FY 2024	FY 2025
Title: ERDC Management and Administrative Actions and Other Operational Requirements	35.459	37.295	35.251
Description: Supports the non-AMHA operation of garrison activities, management and administrative functions as follows in support of the ERDC installations' military research missions.			
FY 2024 Plans: Will provide operation of management, administrative, personnel, budget, logistics and support functions at a level consistent with Army and mission requirements to meet the needs of ERDC conducting the Army's engineer R&D program supporting all six of the Army's Modernization Priorities.			
FY 2025 Plans: Will provide operation of management, administrative, personnel, budget, logistics and support functions at a level consistent with Army and mission requirements to meet the needs of ERDC conducting the Army's engineer R&D program supporting all six of the Army's Modernization Priorities.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M23 / <i>US Army Corps of Engineers Base Operations</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Funding decrease reflects planned lifecycle of this effort.			
Accomplishments/Planned Programs Subtotals	35.459	37.295	35.251

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

N/A

Remarks

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M42 / ARDEC Cmd/Ctr Support			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M42: ARDEC Cmd/Ctr Support	-	7.632	8.105	8.122	-	8.122	8.132	8.219	8.308	8.391	0.000	56.909
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions in support of the operation and management of the United States (U.S.) Army Combat Capabilities Development Command (DEVCOM), Armaments Center (AC), Picatinny Arsenal, NJ, not identifiable with specific research and development projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable the DEVCOM AC to accomplish its research, development and engineering mission, to include DEVCOM headquarters staff, safety, physical security, anti-terrorism, operations security (OPSEC), information security and intelligence services.

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

	FY 2023	FY 2024	FY 2025
Title: Management Support	7.632	8.105	8.122
Description: Efforts in support of DEVCOM Armaments Center (AC) operations and management functions.			
FY 2024 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM AC.			
FY 2025 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM AC.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funds increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals	7.632	8.105	8.122

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

N/A

Remarks

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M44 / CECOM Cmd/Ctr Spt			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M44: CECOM Cmd/Ctr Spt	-	4.912	5.170	5.180	-	5.180	5.186	5.242	5.299	5.352	0.000	36.341
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Non-Army Management Headquarters Activity (non-AMHA) functions in support of the operation and management of the United States (U.S.) Army Combat Capabilities Development Command (DEVCOM) Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Center, located at Aberdeen Proving Ground, MD. These efforts are not identifiable with specific research and development projects financed under other program elements.

Funds only select, critical, overarching functions that enable DEVCOM C5ISR Center to accomplish its research, development and engineering mission, to include headquarters staff, resource management, human resources, safety, security, protocol, public affairs, information management, facility management and audit readiness.

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

	FY 2023	FY 2024	FY 2025
Title: Management Support	4.912	5.170	5.180
Description: Efforts in support of DEVCOM Command, Control, Communications, Computers, Cyber Intelligence, Surveillance and Reconnaissance (C5ISR) Center operations and management functions.			
FY 2024 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM C5ISR Center.			
FY 2025 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM C5ISR Center.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals	4.912	5.170	5.180

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

N/A

Remarks

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army Date: March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M44 / <i>CECOM Cmd/Ctr Spt</i>
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D. Acquisition Strategy
N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M46 / AMCOM Cmd/Ctr Spt			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M46: AMCOM Cmd/Ctr Spt	-	4.007	4.223	4.232	-	4.232	4.236	4.282	4.328	4.371	0.000	29.679
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Non-Army Management Headquarters Activity (non-AMHA) functions in support of the operation and management of the United States (U.S.) Army Combat Capabilities Development Command (DEVCOM) Aviation and Missile Center (AvMC), Redstone Arsenal, AL. These functions are not identifiable with specific research and development projects financed under other Program Elements.

Funds only select, critical, overarching functions in support of DEVCOM AvMC accomplishing its research, development and engineering mission.

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

	FY 2023	FY 2024	FY 2025
Title: Management Support	4.007	4.223	4.232
Description: Efforts in support of DEVCOM Aviation and Missile Center (AvMC) operations and management functions.			
FY 2024 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM AvMC.			
FY 2025 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM AvMC.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals	4.007	4.223	4.232

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

N/A

Remarks

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M47 / TACOM Cmd/Ctr Spt			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M47: TACOM Cmd/Ctr Spt	-	3.942	4.214	4.222	-	4.222	4.227	4.271	4.318	4.361	0.000	29.555
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Non-Army Management Headquarters Activity (non-AMHA) functions in support of the operation and management of the United States Army Combat Capabilities Development Command (DEVCOM) Ground Vehicle Systems Center (GVSC), Warren, MI, not identifiable with specific research and development projects financed under other Program Elements.

Funds only select, critical, overarching management functions that enable DEVCOM GVSC to accomplish its research, development and engineering mission.

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

	FY 2023	FY 2024	FY 2025
Title: Management Support	3.942	4.214	4.222
Description: Efforts in support of DEVCOM Ground Vehicle Systems Center (GVSC) operations and management functions.			
FY 2024 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM GVSC.			
FY 2025 Plans: Will provide management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM GVSC.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals	3.942	4.214	4.222

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities	Project (Number/Name) M55 / Edgewood Chemical Biological Center
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M55: Edgewood Chemical Biological Center	-	4.095	4.631	4.745	-	4.745	4.756	4.786	4.697	4.744	0.000	32.454
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Non-Army Management Headquarters Activity (non-AMHA) functions in support of the operation and management of the United States Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC), Aberdeen Proving Ground, MD, not identifiable with specific research and development projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable DEVCOM CBC to accomplish its mission to include DEVCOM CBC headquarter staff, resource management, safety, and surety programs. In addition, this program includes the management and oversight of Army chemical surety operations as directed by Department of Defense (DoD) Instruction 5210.65, "Minimum Security Standards for Safeguarding Chemical Agents".

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

	FY 2023	FY 2024	FY 2025
Title: Management Support	4.095	4.631	4.745
Description: Efforts in support of DEVCOM Chemical Biological Center (CBC) operations and management functions.			
FY 2024 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM CBC.			
FY 2025 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM CBC.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals			
	4.095	4.631	4.745

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

N/A

Remarks

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities	Project (Number/Name) M55 / Edgewood Chemical Biological Center

D. Acquisition Strategy
N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M58 / SECOM CMD/CTR Spt			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M58: SECOM CMD/CTR Spt	-	2.370	2.440	2.446	-	2.446	2.449	2.474	2.502	2.527	0.000	17.208
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Non-Army Management Headquarters Activity (non-AMHA) functions in support of the operation and management of the United States Army Combat Capabilities Development Command (DEVCOM) Soldier Center (SC), Natick, MA, not identifiable with specific research and development projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable DEVCOM SC to accomplish its research, development and engineering mission, to include Manpower/ Personnel, Intelligence/Security, Operations, Logistics, Training, Resource Management and Headquarters administrative staff.

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

	FY 2023	FY 2024	FY 2025
Title: Management Support	2.370	2.440	2.446
Description: Efforts in support of DEVCOM Soldier Center (SC) operations and management functions.			
FY 2024 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM SC.			
FY 2025 Plans: Will provide continued management and administrative functions at a level consistent with mission requirements and support needs of DEVCOM SC.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals	2.370	2.440	2.446

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>				Project (Number/Name) M76 / <i>Armament Group Support</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M76: <i>Armament Group Support</i>	-	2.200	2.395	2.426	-	2.426	2.456	2.462	2.465	2.489	0.000	16.893
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The goal of this Project is to expand worldwide allied standardization and interoperability through cooperative research and development (R&D) and technology sharing per Secretary of Defense guidance and especially in support of the United States (U.S.) Army. This Project partially funds the travel costs and administrative support (studies, analysis, interpretation, equipment, etc.) required to participate in international forums, such as the North Atlantic Treaty Organization (NATO) Army Armaments Group (NAAG), Defense Against Terrorism (DAT) and to pursue new cooperative R&D initiatives and international cooperative agreements such as memoranda of understanding. This Project also includes the United States' share of costs of the NATO Civil Budget, Chapter IX, which funds the NATO Industrial Advisory Group (NIAG) and the Special Fund for Cooperative Planning (U.S. Army is Executive Agent for this NATO bill). This Project also partially funds the Five Power Senior National Representatives, Army (SNR (A)), the Technical Cooperative Program, Bilateral SNR(A)s, and Army armaments working groups with many nations.

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

	FY 2023	FY 2024	FY 2025
<p>Title: Army Scientific Support NATO Army Armaments Group</p> <p>Description: Funds supported Army subject matter experts to attend scientific and technological exchange, meetings, demonstrations, and/or simulations having military application and mutual benefits to the U.S. and its Allies.</p> <p>FY 2024 Plans: Funds support Army SMEs to attend scientific and technological exchange, meetings demonstrations, and/or simulations having military application and mutual benefits to the United States and its Allies and will fund 8 different working/capability groups that will meet twice a year.</p> <p>FY 2025 Plans: Increase in funding is a response to economic assumptions.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding is a response to economic assumptions.</p>	0.435	0.460	0.461
<p>Title: Executive Agent</p> <p>Description: Funds the U.S. share of the Mandatory NATO Civil Budget, Chapter IX (Defense Support Programs). U.S. Army is Executive Agent for this Mandatory NATO bill.</p> <p>FY 2024 Plans:</p>	1.765	1.935	1.965

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605801A / <i>Programwide Activities</i>	Project (Number/Name) M76 / <i>Armament Group Support</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Funds support the United States share of the NATO Civil Budget, Chapter IX (Defense Support Program). U.S. Army is the Executive Agent for this mandatory NATO Bill.</p> <p><i>FY 2025 Plans:</i> Funds support the United States share of the NATO Civil Budget, Chapter IX (Defense Support Program). U.S. Army is the Executive Agent for this mandatory NATO Bill.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase in funding is a response to economic assumptions.</p>			
Accomplishments/Planned Programs Subtotals	2.200	2.395	2.426

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	36.821	31.327	32.385	-	32.385	35.330	33.440	33.939	34.278	Continuing	Continuing
<i>727: Tech Info Activities</i>	-	15.020	12.834	13.012	-	13.012	13.026	13.166	13.310	13.443	Continuing	Continuing
<i>731: Army High Performance Computing Centers</i>	-	2.154	2.201	2.227	-	2.227	2.229	2.254	2.278	2.301	Continuing	Continuing
<i>733: Acquisition Tech Act</i>	-	4.872	5.169	5.297	-	5.297	5.302	5.358	5.418	5.472	Continuing	Continuing
<i>CC2: Expeditionary Technologies</i>	-	5.423	5.675	6.205	-	6.205	6.211	6.277	6.345	6.408	Continuing	Continuing
<i>DW3: Army Geospatial Enterprise Implementation</i>	-	9.352	5.448	5.644	-	5.644	8.562	6.385	6.588	6.654	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) supports oversight of the development and defense of the Army Science and Technology (S&T) budget, and development of Army S&T strategy, policy and guidance. Additionally, it supports upgrading the accuracy, timeliness, availability, and accessibility of scientific, technical, and management information at all levels of the Army Research and Development (R&D) community. Management of this information is critical to achieve the goals established by the Army's Senior Leadership. Use of accurate and timely technical information is essential to successfully meeting S&T transitions and milestones, allowing Army Science and Technology (S&T) leadership to refine investment strategy and quickly react to emerging opportunities and issues. This PE includes initiatives to improve information derivation, storage, access, display, validation, transmission, distribution, and interpretation, along with initiatives to develop and enhance a single business model for Army S&T knowledge management information technology and to provide for Independent Review Team analysis of technology maturity as part of the Technology Readiness Assessment. Develops and publishes Army S&T strategy and policies, sets Army S&T priorities, establishes and tracks S&T metrics to determine earned value and return on investment, and performs S&T studies in support of the ASA(ALT) in Project 727. Project 731 provides funding for support for Army high performance computing centers. Project 733 provides funding for improvements to the Army's acquisition process. Project CC2 provides funding for Expeditionary Technologies (xTech Search) to evaluate the feasibility and potential application of disruptive technologies to Army capability gaps. Project DW3 supports Army Geospatial Enterprise (AGE) Implementation with systems engineering, architecture, and test and certification of Army Acquisition Systems.

The cited work is consistent with the Under Secretary of Defense for Research and Engineering Science and Technology Critical Technology Areas and the Army Modernization Strategy.

Work in this PE is performed by the Army Corps of Engineers' Engineer Research and Development Center (ERDC), Vicksburg, MS; the Army Geospatial Center (AGC) in Alexandria, VA; the Information Management Office, Arlington, VA; the Office of the Assistant Secretary of the Army, Acquisition, Logistics and Technology (ASA(ALT)), The Pentagon, Arlington, VA; Army Futures Command (AFC) Combat Capabilities Development Command (CCDC) Army Research Laboratory (ARL), Aberdeen Proving Ground, MD; and AFC CCDC Ground Vehicle Systems Center, Warren, MI.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	37.652	31.327	32.323	-	32.323
Current President's Budget	36.821	31.327	32.385	-	32.385
Total Adjustments	-0.831	0.000	0.062	-	0.062
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.001	-			
• SBIR/STTR Transfer	-0.830	-			
• Adjustments to Budget Years	-	-	0.062	-	0.062

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

Project: 727: Tech Info Activities

Congressional Add: *Congressional Add*

Congressional Add Subtotals for Project: 727

Project: DW3: Army Geospatial Enterprise Implementation

Congressional Add: *FY23 Congressional Program Increase*

Congressional Add Subtotals for Project: DW3

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	3.000	-
	3.000	-
	5.900	-
	5.900	-
	8.900	-

Change Summary Explanation

Minor increase in FY25 funding from the previous PB to the current PB due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) 727 / <i>Tech Info Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>727: Tech Info Activities</i>	-	15.020	12.834	13.012	-	13.012	13.026	13.166	13.310	13.443	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds the governance, strategy development and oversight of science, research, and technology investments within the Department of the Army. These efforts include developing strategic direction, policy development, supervision and management of the Army's S&T portfolio including resource allocation. This project includes civilian manpower and contractor support required to implement a set of management decision aids and tools to support technical and budgetary decisions at the Department of the Army (DA). Includes the research and development planning, programming and execution for Army S&T, the Army Applied SBIR program, the Army Manufacturing Technology program, Technology Maturation Initiatives program, Technology Transition policy, and Laboratory Management policy. Covers the development and tracking of S&T metrics across the enterprise and supports development of Army plans, programs and policies for OSD and Congress. Most of the efforts in this project are on-going activities to support Army Research and Development programs. Effective exploitation of Science and Technology (S&T) information is critical to achieving the goals established by Senior Army Leadership for the Army of 2040. Funding in this program supports Independent Review Team analysis of technology maturity as part of the Technology Maturation Initiative and Technology Area Readiness Assessments.

The cited work is consistent with the Under Secretary of Defense for Research and Engineering Science and Technology Critical Technology Areas and the Army Modernization Strategy.

Work in this Project is performed by the Office of the Assistant Secretary of the Army, Acquisition, Logistics and Technology (ASA(ALT)), The Pentagon, Washington, DC.

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

	FY 2023	FY 2024	FY 2025
Title: Conduct and support S&T program portfolio assessments and analysis.	4.910	5.100	5.235
Description: Supports identification, development and demonstration of technology options that inform and enable effective and affordable capabilities for the Soldier Providing Soldiers with the technology supporting the Army of 2040. Supports Aviation, Network, Ground, Soldier, Basic Research, Medical, Weapons, and Sensing & Intel Portfolio Directors, responding to scientific, technical and programmatic challenges. Supports Independent Review Team analysis of technology maturity as part of Technology Area Readiness Assessments. Serves as Office of the Deputy Assistant Secretary of the Army, Research and Technology (DASA(R&T)) central point of contact for S&T Metrics, Army S&T strategy development, Strategic Portfolio Analysis Review, evaluation of technical risks, earned value assessment, and technical and financial health of S&T projects.			
FY 2024 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) 727 / <i>Tech Info Activities</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Provide programmatic support and oversight for basic research, applied research, advanced technology development, laboratory management, and technical transition efforts across the Army modernization priorities; perform as the S&T Portfolio subject matter experts to identify forecasted critical science and technology 'outputs' to align with Programs of Record (PoR); ensure tight alignment and coupling to existing PoRs and identify where misalignment between Portfolio technology projections/timelines and/or emerging technology options are not yet reflected at the PoR level. Perform cross portfolio coordination and assessment; and evaluate and assess cost, schedule and technical progress against metrics to determine project health. Assess progress of S&T projects, conduct portfolio deep dives, evaluate technical risks and assess earned value for S&T projects. Identify technology for effective and affordable capabilities in all the S&T portfolios (Basic Research, Medical, Soldier, Network, Aviation, Weapons, and Ground), and key focus areas (Assured Positioning, Navigation & Timing; Synthetic Training Environment; Electronic Warfare; Sensing & Intelligence; and Contested Logistics & Sustainment). Conduct studies of emerging topics based on Army S&T strategy and senior leader initiatives through the Board on Army Research and Development (BOARD) and the National Academies.</p> <p>FY 2025 Plans: Provide programmatic support and oversight for basic research, applied research, advanced technology development, laboratory management, and technical transition efforts across the Army modernization priorities; perform as the S&T Portfolio subject matter experts to identify forecasted critical science and technology 'outputs' to align with Programs of Record (PoR); ensure tight alignment and coupling to existing PoRs and identify where misalignment between Portfolio technology projections/timelines and/or emerging technology options are not yet reflected at the PoR level. Perform cross portfolio coordination and assessment; and evaluate and assess cost, schedule and technical progress against metrics to determine project health. Assess progress of S&T projects, conduct portfolio deep dives, evaluate technical risks and assess earned value for S&T projects. Identify technology for effective and affordable capabilities in all the S&T portfolios (Basic Research, Medical, Soldier, Network, Aviation, Weapons, and Ground), and key focus areas (Assured Positioning, Navigation & Timing; Synthetic Training Environment; Electronic Warfare; Sensing & Intelligence; and Contested Logistics & Sustainment). Conduct studies of emerging topics based on Army S&T strategy and senior leader initiatives through the Board on Army Research and Development (BOARD) and the National Academies.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding is a response to economic assumptions related to civilian salary and contract support increases.</p> <p>Title: Support Army S&T strategic planning, analysis, and prioritization.</p> <p>Description: Coordinates efforts with and across the Army S&T portfolios; manage proposal nomination and selection process; track and provide oversight of ongoing efforts; recommend resolutions/prioritization in the event of conflicting requirements and/or resource constraints; support the full spectrum of Planning, Programming and Budget Execution (PPBE) as it relates to the Army S&T Program; and supports technology transition. Provide senior level technical and analytical support for the Joint Capability Technology Demonstration (JCTD) program and Technology Maturation Initiative (TMI) by assisting with investment analysis, strategies and oversight. Provide financial management recommendations and insights with regards to JCTDs, TMI,</p>				
		5.766	6.164	6.207

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) 727 / <i>Tech Info Activities</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Manufacturing Technology (ManTech) and Defense Manufacturing Initiatives. A variety of scientific and technical taxonomies applied at the task level allow responsive reporting on S&T programs to Congressional, OSD and Army leadership.</p> <p>FY 2024 Plans: Perform strategic analyses to look across the S&T portfolios and provide recommendations to Army leadership for S&T efficiencies and collaborative opportunities across DoD and the larger S&T community; will ensure that resources align to S&T strategy; will support S&T policy development; will coordinate efforts within and across the Army S&T portfolios and engage in tri service leveraging; will support the Program Decision Memorandum process, tasks and guidance for Equipping PEG; will develop prioritized investment opportunities and recommend alternatives for a balanced portfolio; and will support the plan and execution of the S&T program. Evaluate projects within ManTech to support potential joint Service efforts and activities of Joint Defense ManTech. Support Army Technology Maturation planning and execution, and evaluation and implementation of the transition agreement policy to increase technology transition opportunities.</p> <p>FY 2025 Plans: Perform strategic analyses to look across the S&T portfolios and provide recommendations to Army leadership for S&T efficiencies and collaborative opportunities across DoD and the larger S&T community; will ensure that resources align to S&T strategy; will support S&T policy development; will coordinate efforts within and across the Army S&T portfolios and engage in tri service leveraging; will support the Program Decision Memorandum process, tasks and guidance for Equipping PEG; will develop prioritized investment opportunities and recommend alternatives for a balanced portfolio; and will support the plan and execution of the S&T program. Evaluate projects within ManTech to support potential joint Service efforts and activities of Joint Defense ManTech. Support Army Technology Maturation planning and execution, and evaluation and implementation of the transition agreement policy to increase technology transition opportunities.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to economic assumptions related to civilian salary and contract support increases.</p>				
<p>Title: Provide funding and support for Army Acquisition Program Technology Readiness Assessments for Program Milestone Decisions.</p> <p>Description: Coordination and alignment with Programs of Record. Demonstrate technical feasibility at system and subsystem level. As technology transitions and spirals to acquisition, ensure a rapid insertion of new technology.</p> <p>FY 2024 Plans: Support the S&T investment strategy for the entire Army; identify options for future modernization to sustain overmatch against adversaries and to create opportunities to meet new challenges and support the Army of 2040; continue Independent Review Team (IRT) analysis of technology maturity as part of Technology Area Readiness Assessments; provide oversight and</p>		1.130	1.350	1.350

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) 727 / <i>Tech Info Activities</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>management of the Army's Technology Maturation Initiative; develop and track S&T metrics across the enterprise; identify S&T transitions in the Army SPAR planning forum to identify future funding investments.</p> <p>FY 2025 Plans: Support the S&T investment strategy for the entire Army; identify options for future modernization to sustain overmatch against adversaries and to create opportunities to meet new challenges and support the Army of 2040; continue Independent Review Team (IRT) analysis of technology maturity as part of Technology Area Readiness Assessments; provide oversight and management of the Army's Technology Maturation Initiative; develop and track S&T metrics across the enterprise; identify S&T transitions in the Army SPAR planning forum to identify future funding investments.</p>			
<p>Title: Provide Army support to Under Secretary of Defense for Research and Engineering Executive Staff for Department of Defense (DoD) wide Science and Technology oversight.</p> <p>Description: Supports Army engagement in DoD/Under Secretary of Defense for Research and Engineering and cross agency Communities of Interest (COI) and committees.</p> <p>FY 2024 Plans: Participate in ongoing DoD Communities of Interest (COI) engagements and awareness of COI Programs with links to Army S&T; support Army S&T Engagements with USDRE leadership; and support execution of ongoing programs, events and functional responsibilities, effectively communicating with all Army stakeholders and partners including other services, OSD, industry and academia.</p> <p>FY 2025 Plans: Participate in ongoing DoD Communities of Interest (COI) engagements and awareness of COI Programs with links to Army S&T; support Army S&T Engagements with USDRE leadership; and support execution of ongoing programs, events and functional responsibilities, effectively communicating with all Army stakeholders and partners including other services, OSD, industry and academia.</p>	0.214	0.220	0.220
Accomplishments/Planned Programs Subtotals	12.020	12.834	13.012

	FY 2023	FY 2024
Congressional Add: Congressional Add	3.000	-
FY 2023 Accomplishments: Technology transfer efforts.		
Congressional Adds Subtotals	3.000	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) 727 / <i>Tech Info Activities</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>				Project (Number/Name) 731 / <i>Army High Performance Computing Centers</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
731: <i>Army High Performance Computing Centers</i>	-	2.154	2.201	2.227	-	2.227	2.229	2.254	2.278	2.301	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides funding for high performance computing (HPC) research, as well as education, infrastructure sustainment, and outreach support associated with the Army High Performance Computing Center at the United States (U.S.) Army Combat Capabilities Development Command (DEVCOM), specifically, DEVCOM Army Research Laboratory (ARL). The Army High Performance Computing Center provides high fidelity modeling, simulation, and analysis of materials, systems, and operational constructs while working with researchers across the Army to explore new HPC computing environments, algorithms, and supporting technology necessary to support critical efforts in the areas of computational research.

The cited work is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

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

	FY 2023	FY 2024	FY 2025
Title: Sustain the High Performance Computing Environment and Infrastructure in Support of the CCDC Army Research Laboratory (ARL)	2.154	2.201	2.227
Description: The HPC center provides levels of computational capacity to support the development and modernization of tactical capabilities that increase the effectiveness of Army Soldiers around the world. Algorithm design and software engineering approaches are investigated to effectively partition and use binary processing cores to reduce time to solution for Army relevant problems. Factors such as performance, portability, and power will be considered in conjunction with developing new models to quantify computing capabilities in hybrid systems to facilitate algorithm signature mapping to available resources.			
FY 2024 Plans: Will sustain high performance computing (HPC) computational infrastructure in support of Army relevant problems in deep reinforcement learning, large-scale data analytics, and augmented physics-based simulations; assess emerging processing technologies as well as novel data management technologies to augment emerging high performance data analytic workloads required to exploit simulation results.			
FY 2025 Plans: Will sustain high performance computing (HPC) computational infrastructure in support of Army relevant research; expand hybrid cloud on-premise data fabric and Persistent Services Framework (PSF) technologies; expand data harvester infrastructure in support of large scale data transfers; expand Personal Identifiable Information (PII) data processing; expand Unclassified and Collateral Secret computing environments supporting allocated users, Dedicated HPC Project Investments (DHPIs), and			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) 731 / <i>Army High Performance Computing Centers</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Dedicated Support Partitions (DSPs); expand physical infrastructure to support high performance computing systems' 7 year lifecycle. <i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding increase reflects an economic adjustment.				
Accomplishments/Planned Programs Subtotals		2.154	2.201	2.227
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy N/A				

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>				Project (Number/Name) 733 / <i>Acquisition Tech Act</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>733: Acquisition Tech Act</i>	-	4.872	5.169	5.297	-	5.297	5.302	5.358	5.418	5.472	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds efforts to meet the Defense Acquisition Workforce Improvement Act (DAWIA), as well as Congressional, SECDEF, and SECARMY mandates to provide program management execution tools, systems integration and architectural analysis, information technology infrastructure development, knowledge management, and technical workforce management. Funding also provides the framework for Army business and acquisition transformation for development and enhancement of capabilities to allow data to be readily available, automatically extracted to facilitate DoD-wide analysis and manage business operations, and the establishment of a set of activities that use data analysis, measurement, and evaluation-related methods to improve acquisition program outcomes and inform business re-engineering. These efforts afford stability and improvements to the Army Acquisition programmatic and financial data by integrating major acquisition systems and processes, applying decision support and expert information systems, supporting analysis, ability to measure effectiveness, and evaluation of alternative acquisition strategies in meeting Army modernization strategy requirements. This integrated set of capabilities will provide OSD and Army acquisition leadership insights needed to effectively manage a complex portfolio of acquisition programs through more timely and reliable access to authoritative acquisition data to assist in making acquisition, procurement, and logistics decisions in order to provide quality equipment to the Soldiers.

The cited work is consistent with Section 911-913 of the FY 18 NDAA, the Under Secretary of Defense for Research and Engineering Science and Technology priority focus areas, and the Army Modernization Strategy.

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

	FY 2023	FY 2024	FY 2025
Title: ACQUISITION TECH ACT	4.872	5.169	5.297
Description: This effort supports the Acquisition Domain effort to reduce IT investments in programmatic and financial management tools through data standardization and governance, integration of existing acquisition business systems, and processes supporting key Acquisition capabilities at the enterprise level with the goal of reducing redundancy, improving systems operations, and improving management of data resulting in dramatically improved transparency, efficiency, and effective management of the Acquisition process. This support entails analysis required to develop, upgrade, enhance, deploy, and architect enterprise tools within an integrated program management environment on multiple (unclassified/classified) hosting platforms to support analysis of acquisition programs fiscal programming and budgeting requirements against enacted appropriations, conduct long range programming, planning and policy analysis, resource allocation analysis, cost tracking, and analysis. This support will upgrade the knowledge management and enterprise tools, including Project Management Resource Tools (PMRT), that assist acquisition community and professionals with day-to-day program management tasks throughout the Acquisition program's lifecycle. This support also helps implement standards for data management and service-oriented design			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) 733 / <i>Acquisition Tech Act</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>methodology to facilitate efficiency and interoperability as well as providing some business intelligence services. These standards will help inform changes and creation of domain-level requirements, governance processes, and policies.</p> <p><i>FY 2024 Plans:</i> FY2024 efforts expand the capabilities of the server-based PMRT system to full operational capability in a cloud environment. The Army will also continue developing additional system interfaces with data available through the Acquisition Data Service Broker (ADSB) capability to centralize authoritative Army acquisition data into the PMRT environment to include accounting, contracting, programmatic, and financial data. Additionally, in FY2024, the Army will pursue broader PMRT implementation by incorporating capability to support defense acquisition workforce resources (DAWDA), and multi-service organizations pursuing authoritative acquisition data.</p> <p><i>FY 2025 Plans:</i> FY2025 efforts expand the capabilities of the server-based PMRT system to full operational capability in a cloud environment. The Army will also continue developing additional system interfaces with data available through the Acquisition Data Service Broker (ADSB) capability to centralize authoritative Army acquisition data into the PMRT environment to include accounting, contracting, programmatic, and financial data. Additionally, in FY2025, the Army will pursue broader PMRT implementation by incorporating capability to support defense acquisition workforce resources (DAWDA), and multi-service organizations pursuing authoritative acquisition data. Also, Army is part of the Military Technology (MilTech) Consortium, which is funded in this program element.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> New contacts will be awarded in FY2025; the increase in funding is a response to economic assumptions.</p>			
Accomplishments/Planned Programs Subtotals	4.872	5.169	5.297

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>				Project (Number/Name) CC2 / <i>Expeditionary Technologies</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
CC2: <i>Expeditionary Technologies</i>	-	5.423	5.675	6.205	-	6.205	6.211	6.277	6.345	6.408	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project evaluates the feasibility and potential application of disruptive technologies to Army capability gaps. Expeditionary Technology Search (xTechSearch) partners with small, non-traditional companies to apply novel techniques and applications to Army problems through a non-dilutive prize competitions, business accelerators, and outreach activities. These programs will uncover novel dual-use technology solutions that otherwise would not be identified by the Department of Defense.

Work in this Project is performed by the Assistant Secretary of the Army (Acquisition, Logistics and Technology) and the Army Science and Technology Enterprise.

The cited work is consistent with the Under Secretary of Defense for Research and Engineering critical technology areas and the Army Modernization Strategy.

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

	FY 2023	FY 2024	FY 2025
Title: Expeditionary Technology Search (xTechSearch)	5.423	5.675	6.205
Description: Funds technical scouting and competition in Army-wide disciplines through rigorous technical assessment, Soldier feedback, mentorship sponsoring, and cash prizes.			
FY 2024 Plans: Will conduct biannual and ad-hoc competitions with small, non-traditional technology innovation firms seeking to apply their product, technology, or concept towards a prescribed focus area supporting Army capability gaps.			
FY 2025 Plans: Conduct biannual and ad-hoc competitions with small, non-traditional startups and technology firms seeking to apply their product or idea towards a prescribed Army technology focus area.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase to broaden xTech projects to underrepresented/underserved technology development communities, including but not limited to, International firms (INDOPACOM, CENTCOM, and/or SOUTHCOM), HUBZone Firms, and/or women/veteran-owned small businesses.			
Accomplishments/Planned Programs Subtotals	5.423	5.675	6.205

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) CC2 / <i>Expeditionary Technologies</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>				Project (Number/Name) DW3 / <i>Army Geospatial Enterprise Implementation</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DW3: <i>Army Geospatial Enterprise Implementation</i>	-	9.352	5.448	5.644	-	5.644	8.562	6.385	6.588	6.654	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This effort provides the geospatial systems engineering, architecture, and geospatial interoperability certification required by AR 525-95 to ensure Army Acquisition Systems meet interoperability requirements and modernization priorities. Additionally, this effort provides geospatial domain expertise to Mission Command (MC) systems and to all Cross Functional Teams ((CFTs) (with a focus on Network, Synthetic Training Environment (STE), Soldier Lethality, and APNT)) in modernizing soldier situational awareness and understanding and enabling use of 2D and 3D information across Army, Joint, and Coalition Mission Partner Environments (MPE). Enables data sharing, reduces duplication of effort, and enables a common operating picture across the Common Operating Environment (COE), Army Futures Command modernization priorities, National Agencies and Mission Partners. Enables Army systems to consume geospatial data from National-Geospatial Intelligence Agency (NGA) and National System for Geospatial-Intelligence (NSG) partners as required by Department of Defense Instruction (DoDI) 5000.56. Continues implementation of the Army 3D Geospatial Data Integration Strategy as assigned in HQDA EXORD 154-20 and FRAGO1. Geospatial is a Mission Command Essential Capability and a critical enabler for the COE, Army modernization, multi-domain operations and the warfighter.

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

	FY 2023	FY 2024	FY 2025
Title: Enterprise Support Branch (formerly Geospatial Acquisition Support Office)	3.452	5.448	5.644
<p>Description: This effort provides the geospatial systems engineering, architecture, and geospatial interoperability certification required by AR 525-95 to ensure Army Acquisition Systems meet Common Operating Environment (COE) requirements and modernization priorities. This effort provides geospatial domain expertise to Mission Command (MC) in implementing the Army Geospatial Enterprise (AGE) enabling a common operating picture across the Common Operating Environment, Army Futures Command modernization priorities, National Agencies and Mission Partners. Enables Army systems to consume geospatial data from National-Geospatial Intelligence Agency (NGA) and National System for Geospatial-Intelligence (NSG) partners as required by Department of Defense Instruction (DoDI) 5000.56. Enables an interoperable geospatial baseline system of systems across Army and Defense programs and in a Mission Partner Environment (MPE). Continues execution and implementation of the Army 3D Geospatial Data Integration Strategy as assigned in HQDA EXORD 154-20. Geospatial is a Mission Command Essential Capability and a critical enabler for the Common Operating Environment (COE), Army modernization and the warfighter.</p> <p>Key lines of effort include standardizing geospatial data between echelons, ensuring a Standard, Sharable Geospatial Foundation (a Mission Command Essential Capability) across Mission Command, developing new geospatial standards, evaluating emerging geospatial technologies early in their development processes, and certifying systems as AGE compliant. These critical capabilities</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) DW3 / <i>Army Geospatial Enterprise Implementation</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>enable geospatial interoperability across Mission Command, Cross-Functional Team (CFT) initiatives, and with our National and UAP partners ensuring a common operational picture enhancing soldier situational awareness and increasing mission success.</p> <p>FY 2024 Plans: Key lines of effort this year include enabling multi-domain operations and ensuring a Standard, Sharable Geospatial Foundation (a Mission Command Essential Capability) across Army and Defense programs and in a Mission Partner Environment (MPE). Focus through continuing development of Army and the National and Allied systems for geospatial intelligence and DoD geospatial architecture, standards, systems engineering and test and certification. Provides critical capabilities to support army modernization including evaluation and integration of emerging geospatial technologies including 3D data, augmented and virtual reality, artificial intelligence/machine learning and edge computing with current Army systems and processes. Focus is on enabling interoperability across army systems and with other Services and our Allied partners. Continue to evaluate emerging technologies during Joint All Domain Command and Control exercises. These critical capabilities enable geospatial interoperability across Mission Command, Cross Functional Team (CFT) initiatives, and with our National and UAP partners ensuring a common operational picture enhancing soldier situational awareness and increasing mission success."</p> <p>FY 2025 Plans: Key lines of effort for 2025 include enabling a data-centric Army of 2030. Focus is on integrating geospatial data with other data domains such as C2/Unified Data. This integration will support increased situational awareness and understanding across Army, Joint, and Coalition partner environments. Geospatial data and analytics capabilities at Enterprise and disconnected tactical edge nodes will be a focus.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The increase from FY2024 to FY2025 is to account for funding in response to economic assumptions.</p>			
Accomplishments/Planned Programs Subtotals	3.452	5.448	5.644

	FY 2023	FY 2024
Congressional Add: FY23 Congressional Program Increase	5.900	-
FY 2023 Accomplishments: This effort accelerated AGE development and implementation of standards and data integration capabilities to support interoperability of Army intelligence sources via broader adoption of Open Geospatial Consortium (OGC) standards. AGC worked with Army Programs of Record, the National System for Geospatial Intelligence (NSG), and Industry partners to align and integrate critical geospatial data and services.		
Congressional Adds Subtotals	5.900	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605803A / <i>Technical Information Activities</i>	Project (Number/Name) DW3 / <i>Army Geospatial Enterprise Implementation</i>

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

N/A

Remarks

D. Acquisition Strategy

Project funds are for Civilian Pay only. 100% funds utilized to pay for 12 direct funded Army Civilians to execute this mission. No funding is expended for contracting.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	59.088	50.409	50.766	-	50.766	46.978	46.713	47.140	47.535	0.000	348.629
297: <i>Mun Survivability & Log</i>	-	19.821	18.456	16.900	-	16.900	14.903	18.516	18.659	18.790	0.000	126.045
857: <i>DoD Explosives Safety Standards</i>	-	-	-	2.104	-	2.104	2.104	2.104	2.104	2.104	0.000	10.520
858: <i>Army Explosives Safety Management Program</i>	-	0.972	1.489	1.511	-	1.511	1.538	1.538	1.553	1.569	0.000	10.170
859: <i>Life Cycle Pilot Process</i>	-	23.585	5.838	5.873	-	5.873	5.875	5.938	6.003	6.063	0.000	59.175
F21: <i>NATO Ammo Evaluation</i>	-	0.738	0.772	0.774	-	0.774	0.775	0.783	0.792	0.800	0.000	5.434
F24: <i>Conventional Munitions Demil</i>	-	13.972	23.854	23.604	-	23.604	21.783	17.834	18.029	18.209	0.000	137.285

Note

DoD Explosives Safety Standards is a new start within the Munitions Standardization, Effectiveness and Safety program in FY 2025.

A. Mission Description and Budget Item Justification

This Program Element (PE) supports continuing technology investigations by providing a coordinated Tri-Service mechanism for the collection and free exchange of technical data on the performance and effectiveness of all non-nuclear conventional munitions and weapons systems in a realistic operational environment.

Project 297 - Munitions Survivability & Logistics: This Project supports the future force by making Army units more survivable through the investigation, testing and demonstration of munitions logistics system improvements that prevent or minimize catastrophic explosive events and accelerate ammunition resupply. Key thrusts are munitions storage area survivability, Insensitive Munitions (IM) technology integration and compliance, ammunition management and asset visibility, weapon system rearm, munitions configured load enablers and advanced packaging and distribution system enhancements. Within each thrust, a broad array of solutions will be identified, tested, and evaluated against developed system measures of effectiveness. Optimum, cost effective and efficient solutions that enable the rapid projection of lethal and survivable forces will be demonstrated. The early stages of force deployment are especially critical. Theater ammunition storage areas are vulnerable and present the enemy with lucrative targets. These areas and distribution nodes contain the only available munitions stocks in theater. Loss of these munition stocks could cripple the force, jeopardize the mission, and result in high loss of life. This Project mitigates vulnerabilities and ensures a survivable fighting force.

Project 857 - DoD Explosives Safety Standards: This Project supports the Research, Development, Test, and Evaluation efforts of the Department of Defense (DoD) Explosive Safety Standards Board. It supports explosive safety effects research and testing to quantify hazards and to develop techniques to mitigate those hazards in all DoD manufacturing, testing, transportation, maintenance, storage, disposal of ammunition and explosives operations, and also to develop risk based explosives

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	
<p>safety standards. Results are essential to the development and improvement of quantity-distance standards, hazard classification procedures, cost effective explosion resistant facility design procedures, and personnel hazard/protection criteria.</p> <p>Project 858 - Army Explosives Safety Management Program: This Project establishes, validates or modifies explosives technical safety requirements per Department of Defense Manual 6055.09 and Department of the Army Pamphlet 385-64, Ammunition and Explosives Safety Standards. Project activities promote Research, Development, Test, and Evaluation (RDTE) of new and innovative explosives safety technologies that improve the survivability of Army personnel, facilities, and equipment as well as improve the health, safety and welfare of the general public (with highest priority directed to combat theater of operations).</p> <p>Project 859 - Life Cycle Pilot Process: This Project supports the implementation of the Single Manager for Conventional Ammunition (SMCA) Industrial Base Strategic Plan through technology investigations, model based process controls, pilot prototyping, and industrial assessments. It will assess life cycle production capabilities required for all ammunition families, address design for manufacturability to facilitate economical production, identify industrial and technology requirements, and address the ability of the production base to rapidly and cost effectively produce quality products. Cost reduction is an important part of the Life Cycle Pilot Process (LCPP). LCPP provides the resources to prototype critical technologies and develop the knowledge base to establish cost effective, environmentally safe and modern production processes in support of the munitions Industrial Base transformation. In addition, the LCPP program addresses Single Point Failures (SPFs) / No Source of supply within the National Technology Industrial Base (NTIB). LCPP provides support to reduce supply chain risk by investigating, developing and evaluating additional sources of supply for a known SPF.</p> <p>Project F21:North Atlantic Treaty Organization (NATO) Ammunition Evaluation program funding ensures interchangeability of ammunition and weapons among all the NATO countries with all of the associated logistic, strategic and tactical advantages of the alliance. This Project involves development and testing compliance of NATO standardization agreements (STANAGS) and staffing of the North American Regional Test Center (NARTC). In addition, this Project supports small caliber ammunition, 50mm ammunition, 40mm grenade munitions, medium caliber cannon ammunition, and large caliber ammunition enhancements to lethality, effectiveness, survivability, accuracy, and general product improvements. This Project also supports the standardization and interchangeability of legacy and new production United States (US) weapons and ammunition with Allied Nations to maximize battlefield interchangeability/ compatibility under the auspices of international agreements to include NATO working groups, the Joint Ballistics Memorandum of Understanding (JBMOU), and information/ data exchange agreements. Maximizing standardization, interchangeability, and exportability will also potentially increase Foreign Military Sales (FMS) of US indirect fire weapon and munition products to support United States industrial base production and affordable Department of Defense pricing through increased economies of scale.</p> <p>Project F24: Conventional Munitions Demilitarization (Demil): The Conventional Munitions Demilitarization technology Project supports the SMCA responsibility per Department of Defense Instruction (DoDI) 5160.68 to plan, program, budget and fund a Joint Service Research and Development (R&D) program that develops capability and capacity as well as technology and facilities to support the SMCA mission to demil and dispose of conventional ammunition stored in the SMCA Resource, Recovery and Disposition Account (B5A). The program goals include SMCA efforts to increase efficiencies and effectiveness to reduce the demil stockpile; reduce processing costs including packaging, handling and crating; and increase capacity through improved demilitarization capabilities and processes. Project F24 includes activities: (1) to establish requirements and develop processes to focus investments, assess capabilities, analyze alternatives, and recommend and implement R&D projects; (2) to improve products and processes that support existing capabilities; (3) to develop or improve demil methods and processes related to advance the primary demilitarization core thrust areas of destruction, disassembly, removal, resource recovery and recycling, and waste stream treatment; (4) to ensure safe and</p>		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>
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environmentally acceptable demil operations; (5) to transition R&D products to United States Army depots or plants as well as commercial facilities performing demil; and (6) to mitigate risk and close-out project activities.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	60.645	50.409	50.227	-	50.227
Current President's Budget	59.088	50.409	50.766	-	50.766
Total Adjustments	-1.557	0.000	0.539	-	0.539
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.557	-			
• Adjustments to Budget Years	-	-	0.539	-	0.539

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

Project: 859: *Life Cycle Pilot Process*

Congressional Add: *Program increase - Foamable Celluloid Materials*

Congressional Add: *Program increase - Neutron Radiography*

Congressional Add: *Program increase- Additive Manufacturing for High Temperature Alloys*

Congressional Add Subtotals for Project: 859

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	5.000	-
	5.000	-
	8.000	-
Congressional Add Subtotals for Project: 859	18.000	-
Congressional Add Totals for all Projects	18.000	-

Change Summary Explanation

297: \$1.621M decrease to support continuous product improvements efforts on small, medium, and large caliber ammunition.

857: \$2.104M increase supports the Research, Development, Test, and Evaluation efforts of the Department of Defense (DoD) Explosive Safety Standards Board. New Start.

858: \$0.005M decrease to support continuous product improvements efforts on small, medium, and large caliber ammunition.

859: \$0.012M decrease to support continuous product improvements efforts on small, medium, and large caliber ammunition.

F21: \$0.002M increase to support interchangeability of ammunition and weapons among all the NATO countries..

F24: \$0.047M increase to support products and processes that support existing capabilities for Demil.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 297 / <i>Mun Survivability & Log</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>297: Mun Survivability & Log</i>	-	19.821	18.456	16.900	-	16.900	14.903	18.516	18.659	18.790	0.000	126.045
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the future force by making Army units more survivable through the investigation, testing, and demonstration of munitions logistics system improvements that prevent or minimize catastrophic explosive events and accelerate ammunition resupply. Key thrusts are munitions storage area survivability, Insensitive Munitions (IM) technology integration and compliance, ammunition management and asset visibility, weapon system rearm, munitions configured load enablers, and advanced packaging and distribution system enhancements. Within each thrust, a broad array of solutions will be identified, tested, and evaluated against developed system wide measures of effectiveness. Optimum, cost effective, and efficient solutions that enable the rapid projection of lethal and survivable forces will be demonstrated. Theater ammunition storage areas are vulnerable especially during early stages of force deployment and present the enemy with lucrative targets. These areas and distribution nodes contain the only available munitions stocks in theater. Loss of these munition stocks could cripple the force, jeopardize the mission, and result in high loss of life. This Project mitigates vulnerabilities and ensures a survivable fighting force while providing leap ahead technology to meet the Multi-Domain Operations (MDO) and the priorities identified by the Contested Logistics, Long Range Precision Fires (LRPF), Next Generation Combat Vehicles (NGCV), Future Vertical Lift (FVL), Network, and Soldier Lethality (SL) Cross Functional Teams (CFT).

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

	FY 2023	FY 2024	FY 2025
Title: Munitions Predictive Life	2.751	3.480	3.450
<p>Description: This activity will demonstrate technologies and algorithms that help assess munitions serviceability based on environmental exposure or rough handling that exceeds specified operational threshold. The activity will provide life cycle management tools for risk mitigation strategies, while reducing testing, inspection, and surveillance required while improving weapon system reliability and Warfighter effectiveness. This Project will specifically assess munitions serviceability based upon aggregated environmental exposures, system cycling and munition degradation models during the tactical distribution of munitions after they are re-configured to distribution focused multi-Department of Defense Identification Code (DODIC) consolidation packs, uploaded to resupply assets and any weapon system that has been rearmed.</p> <p>FY 2024 Plans: Develop techniques to improve operational lethality and readiness by utilizing commercial off the shelf environmental monitoring technologies/sensors to record temperature, humidity, shock, vibration exposure to ensure ammunition is viable for use. This development effort will investigate potential methods to overcome the high risk/cost of dedicated ammunition health monitoring sensors and predicted remaining useful life algorithms of past investments. As these commercial solutions are evaluated, the most suitable candidates will be integrated with emerging tactical 155mm ammunition storage and transportation systems to mitigate the detrimental effects of environmental exposure on the operational availability of the weapon platform. This tailored capability</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 297 / <i>Mun Survivability & Log</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>will be integrated into existing or emerging weapon systems to meet requirements established by the Long Range Precision Fires (LRPF) Cross Functional Team (CFT), and will feed ammunition exposure data into tactical ammunition management systems to ensure only viable ammunition is sourced for use. Conduct an in-depth analysis to establish the potential degradation conditions for 155mm propellant due to regional / seasonal environmental exposure when deployed with Extended Range Cannon Artillery (ERCA) and other Field Artillery (FA) systems, to ensure deployment of selected commercial solution to meet ammunition surveillance requirements.</p> <p>FY 2025 Plans: Develop techniques to improve operational lethality and readiness by instrumenting emerging and legacy and future tactical vehicles with available environmental monitoring technologies/sensors to record temperature, humidity, shock, and vibration exposure to ensure ammunition is viable for use once it is issued from the Army accountable system. This development effort will investigate various methods of ammunition health monitoring techniques and predicted remaining useful life algorithms of past investments coupled with industry best practices of supply chain management. As these solutions are evaluated, the most suitable candidates will be integrated with emerging maneuver formations for improved ammunition storage, transportation system efficiencies and weapon platform lethality and mobility. This approach will be integrated into legacy and emerging weapon systems to meet requirements established by the Contested Logistics, LRPF, NGCV, FVL, Network, and SL CFTs, and will feed ammunition exposure data into the Tactical Ammunition Management Microservices System (TAMMS) to ensure viable ammunition is sourced for use in meeting fires mission requirements. Conduct an in-depth analysis, develop data architectures to establish the metrics to assess munitions useability for all 155mm ammo items when deployed with the next generation howitzer, and other FA systems to ensure Predictive and Contested Logistics emerging Joint Capabilities Integration and Development System (JCIDS) system requirements are met.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding but there is no change in project authorization from FY 2024 to FY 2025</p>			
<p>Title: Insensitive Munitions (IM) Integration Program</p> <p>Description: Demonstrate multiple IM technologies and integrate into end item(s) to improve munitions survivability and Warfighter safety. IM Technologies, using State-of-the-Art materials, will be developed in the areas of warhead, propulsion and propellants, explosives, packaging, and barriers. In addition, modeling and simulation will be used to reduce development and testing costs. Efforts will increase the number of IM compliant ammunition items fielded to mitigate munition's reaction to unplanned stimuli such as fire, fragments, enclosed heat build-up (cook-off), bullets, adjacent munition's reaction (sympathetic detonation), and shape charge jet attacks.</p> <p>FY 2024 Plans:</p>	5.570	6.700	5.520

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 297 / <i>Mun Survivability & Log</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Complete full-scale full-scale IM and performance testing of medium caliber composite cartridge cases for improved response to shock and thermal threats in support of NGCV, FVL and Soldier Lethality SL modernization priorities. Finalize Phase Change Material design of container heat management technology for mortar packaging and initiate live demonstration testing. Complete hot and cold Highly Accelerated Life testing of Sealed Seam packaging venting technology to improve artillery and tank containers' response to thermal events in support of Long Range Precision Fire (LRPF) modernization priority. Initiate IM testing of container lid venting in selected packaging container. Continue demonstration of the M433E1 40MM Cartridge to integrate explosive technology along with warhead, packaging venting and impact mitigation technologies in support of Next Generation Combat Vehicle (NGCV) priorities. Initiate engineering IM testing of down-selected DNP formulation in end item to support Soldier Lethality (SL) modernization priority. Continue engineering IM and performance tests of Titan II formulation in end item to support Long Range Precision Fires (LRPF) and Air and Missile Defense (AMD) priorities. Continue demonstration of PAX-64 as a replacement for PBXN-12 in mortar auxiliary charges for improved Fragment Impact (FI) response. Complete static fire, fragment impact and ballistic performance testing of new igniter formulations to replace Benite in 120mm tank munitions. Develop combustible cartridge case to replace metal cartridge in 105mm Tank ammunition. Evaluate propellant coating technology for improved cook-off and impact threats.</p> <p>FY 2025 Plans: Complete hot and cold Highly Accelerated Life (HAL) testing/initial sequential rough handling and initiate IM testing of Sealed Seam packaging venting technology to improve artillery and tank containers' response to thermal events in support of LRPF modernization priority. Continue demonstration of container lid venting in selected packing container. Continue engineering IM testing of down-selected Dinitrophenol (DNP) formulation in end item to support SL modernization priority. Continue engineering IM and performance tests of Titan II (CL-20 based) formulation in end item to support LRPF, and Air and Missile Defense (AMD) priorities. Continue demonstration of PAX-64 as a replacement for PBXN-12 in mortar auxiliary charges for improved Fragment Impact (FI) response. Final demonstration of medium caliber ammunition to integrate explosive technology along with warhead, packaging venting and impact mitigation technologies in support of NGCV priorities. Conduct IM testing of barrier technology for mitigation of sympathetic reaction in support of LRPF. Initiate structural rough handling and ballistic testing of 105mm tank ammunition with combustible cartridge case design. Continue IM testing of propellant coating and initiate ballistic testing. Perform ballistic/auto handling and continue IM testing of 30x173mm cartridge case technology. Conduct fragment impact on M742A2 105mm tank primer.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due realignment of funding to PE 0607131A (Weapons and Munitions Product Improvement Programs) to support continuous product improvements efforts on small, medium, and large caliber ammunition.</p> <p>Title: Improved Munitions Packaging</p>	2.500	2.900	2.500

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 297 / <i>Mun Survivability & Log</i>

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

Description: This activity will demonstrate upgrades to existing packaging components and materials to improve legacy ammunition survivability, support emerging weapons system autonomy, and optimize resupply and tactical vehicles ammunition storage configurations. These upgrades will enhance ammunition survivability, accessibility, reliability, improve field ammunition operations, and improve packaging. This activity will also demonstrate intermediate packaging concepts and components to improve survivability once removed from bulk/depot packs for distribution through the Brigade Combat Tea (BCT).

FY 2024 Plans:

Develop a suite of robust ammunition consolidators to protect extended range field artillery components after their removal from depot packaging to ensure expected performance will not degrade during distribution. Develop new ammunition stowage designs for associated ammo support vehicles that maximizes inventory / complete round quantities, optimizes storage and retrieval of ammunition, maintain legacy vehicle safety and functionality, while minimizing physical demands of crew when conducting rearm and resupply operations. Continue development of light weight steel rectangular ammunition containers to meet 6.8mm ammunition qualification tests. Begin engineering design of packaging components to promote automation during storage and handling. Develop new designs or concepts for lids, latches, security seals, tie downs, palletization methods and environmental mitigation. Investigate coating materials and processes to enable stenciling/labeling/QR code marking of ammunition for accountability proposes forward of the Ammunition Storage Areas, to meet Multi Domain Operations (MDO) modernization initiatives. Conduct comprehensive industry search of emerging materials/technologies for applicability to ammunition packaging to reduce unit cost and weight in support of the JPEO Armaments & Ammunition portfolio. Conduct engineering testing on packaging prototypes and configurations designed to protect new and legacy items against environmental effects and other stimuli, as required to reflect use cases defined by the CONOPS for Extended Range Cannon Artillery (ERCA). Conduct business case analysis of 2-dimensional bar codes to individual PM Cannon Artillery System items and unitized packaging to include projectiles, fuzes, and propellant charges at the load plant. Assess M992A3 Carrier Ammunition Tracked extended range ammunition stowage designs/mechanisms for automation applicability to meet the PM SPHS/LRPF Cross Functional Team (CFT) autonomy initiatives for ERCA and other field artillery formations.

FY 2025 Plans:

Develop tactical vehicle specific ammunition storage applique concepts/prototypes suitable for consolidation of complete rounds (Field Artillery) supporting Indirect Fire, Direct Fire, and Dismounted Infantry formations. Evaluate new storage concepts for associated ammunition support vehicles that maximizes inventory/complete round quantities, optimizes storage and retrieval of ammunition, and maintain legacy vehicle safety and functionality while minimizing physical demands of the crew when conducting rearm and resupply operations. Conduct case study on methods to protect emerging ammunition items and components after their removal from depot packaging to ensure expected performance will not degrade during transportation and distribution. Investigate coating materials and processes to enable stenciling/labeling/data matrix marking of ammunition for accountability purposes forward of the ammunition storage areas to meet MDO modernization initiatives. Assess M992A3 Carrier Ammunition Tracked

FY 2023	FY 2024	FY 2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>extended range ammunition stowage designs/mechanisms for automation applicability to meet the PM Self-Propelled Howitzer System (SPHS) and LRPF CFT autonomy initiatives for Next Generation Howitzer. Investigate the application of current point of need parts fabrication techniques when repacking ammunition during field turn-in and Relief in Place/Transfer of Authority activities to minimize sustainment demand.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due realignment of funding to PE 0607131A (Weapons and Munitions Product Improvement Programs) to support continuous product improvements efforts on small, medium, and large caliber ammunition.</p>			
<p>Title: Ammo Provider</p> <p>Description: This activity demonstrates technologies that will assure a survivable munitions logistics system by increasing distribution velocity and protecting ammo storage areas. Technology areas to be investigated include ammunition asset visibility, including environmental sensors, marking technologies, and supply chain modeling; ammunition management, including improvements in stockpile surveillance and condition based management; sustainment, including pre-configured loads (soldier to unit size); field ammunition reconfiguration capability, robotic handling, and improved load building capability; and force protection, including site planning software and field storage protection. All research and development initiatives will be supporting the LRPF, NGCV, SL, and Contested Logistics CFTs and the MDOs modernization objectives that consume, store or transport/distribute munitions and munition components in the maneuver formations.</p> <p>FY 2024 Plans: Conduct extensive system engineering analysis to determine expected life cycle cost and performance of a suite of ammunition logistics enabler prototypes under development to meet the Multi Domain Operations (MDO) modernization objectives for Long Range Precision Fires (LRPF), Next Generation Combat Vehicle, and Network Cross Functional Teams. These logistics enablers will be assessed through lethality, mobility, and readiness benefits as measured across multiple maneuver formations covering field artillery and large/medium caliber direct fire. Results will be used to refine user requirements and inform associated Programs of Record (POR) to provide for the automation and optimization of requisitions, spatial and temporal based inventory data, real-time consumption tracking, and forecasting demand for all ammo items. Extend analysis to optimize tactical multi-class storage areas to efficiently deliver configured loads that are synchronized with available transportation conveyances, and support preparation and planning for future missions to meet the objectives of the Sustainment Mission Command Predictive Logistics concept, for more efficient distribution of Ammunition and other commodities. Mature explosive safety siting techniques to inform a JPEO Material Decision. In collaboration with PM CAS and PM SPHS, develop enhanced high-fidelity models to reflect LRPF increased rate of fire concepts and the lethality and mobility resupply requirements to meet unit readiness. Develop prototypes for large caliber ammo handling and transportation enablers to meet supply chain through-put requirements/distribution velocity, and to enable automation. Integrate enablers as they mature into the Tactical Ammunition Management Micro-Services to continuously improve ammunition distribution velocity. Conduct limited user evaluations of emerging ammunition logistics</p>	4.727	5.376	5.430

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 297 / <i>Mun Survivability & Log</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>enablers as they mature to gain direct soldier feedback on potential benefits while also informing RDT&E decision points through the development cycle.</p> <p>FY 2025 Plans: Conduct extensive system engineering analysis to determine expected life cycle cost and performance of a suite of ammunition logistics enabler prototypes under development to meet the MDO modernization objectives for LRPF, NGCV, Contested Logistics, and Network CFTs. These logistics enablers will be assessed through lethality, mobility, and readiness benefits as measured across multiple maneuver formations covering field artillery, large/medium caliber direct fire, dismounted units, and line of sight area weapons. Results will be used to refine user requirements and inform associated Programs of Record (PoR) to provide for the automation and optimization of requisitions, spatial and temporal based inventory data, real-time consumption tracking, and forecasting demand for all ammunition items. Results will also be assessed for ease of integration into Tactical Army Cloud and Enterprise Convergence concepts. Conduct analysis to leverage ammunition Research Development Test and Evaluation (RDT&E) concepts as applied to tactical multiclass storage areas to efficiently deliver configured loads that are synchronized with available transportation conveyances, and support preparation and planning for future missions to meet the objectives of the Sustainment Mission Command Predictive Logistics concepts. Develop enhanced high-fidelity models to evaluate emerging sustainment concepts to project tactical supply chain performance against Contested Logistics objectives. Investigate technical advances for ammunition handling to meet large caliber ammunition handling and transportation supply chain through-put velocity requirements for manual and autonomous operations. Conduct limited user evaluations and Soldier touch points of maturing ammunition logistics enablers to gain direct Soldier feedback on potential benefits while also informing RDT&E decision points throughout the development cycle.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding reflects planned lifecycle of the effort.</p>			
<p>Title: P2 Supply Chain Assured Munitions</p> <p>Description: Army added funds to update legacy chemical specifications and expand the Industrial Base Analysis Tool (IBAT) software to illuminate kinetic weapons supply chains involving critical chemicals and raw materials used in missiles and munitions.</p>	4.273	-	-
Accomplishments/Planned Programs Subtotals	19.821	18.456	16.900

<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p>

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>				Project (Number/Name) 857 / <i>DoD Explosives Safety Standards</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
857: <i>DoD Explosives Safety Standards</i>	-	-	-	2.104	-	2.104	2.104	2.104	2.104	2.104	0.000	10.520
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

DoD Explosives Safety Standards is a new start within the Munitions Standardization, Effectiveness and Safety program in FY 2025.

A. Mission Description and Budget Item Justification

This Program Element (PE) supports continuing technology investigations. It provides a coordinated tri-Service mechanism for the collection and free exchange of technical data on the performance and effectiveness of all non-nuclear conventional munitions and weapons systems in a realistic operational environment.

This Project supports the Research, Development, Test, & Evaluation (RDTE) efforts of the Department of Defense (DoD) Explosive Safety Standards Board. It supports explosive safety effects research and testing to quantify hazards and to develop techniques to mitigate those hazards in all DoD manufacturing, testing, transportation, maintenance, storage, disposal of ammunition and explosives operations, and also to develop risk based explosives safety standards. Results are essential to the development and improvement of quantity-distance standards, hazard classification procedures, cost effective explosion resistant facility design procedures, and personnel hazard/protection criteria.

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

	FY 2023	FY 2024	FY 2025
Title: DoD Explosives Safety Standards	-	-	2.104
Description: Funding provides a coordinated tri-Service mechanism for the collection and free exchange of technical data on the performance and effectiveness of all non-nuclear conventional munitions and weapons systems in a realistic operational environment resulting in explosive safety effects research and testing to quantify hazards and to develop techniques to mitigate those hazards in all DoD manufacturing, testing, transportation, maintenance, storage, disposal of ammunition and explosives operations, and also to develop risk based explosives safety standards.			
FY 2025 Plans: Initiate explosives safety standards development to update, modernize, and improve all safety hazard classifications, integrate explosive safety standards, integrate risk evaluation and management. Initiate explosives safety analysis and planning tools to provide methodologies to support site planning and risk assessment, provide methodologies and tools for the design of new protective construction and provide tools to harvest and validate critical infrastructure and operational condition and risk data. Initiate explosion effects testing to gain understanding of the science of explosions to improve standards and prediction tools.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Increase reflects planned initiation of the effort in FY25.			
Accomplishments/Planned Programs Subtotals	-	-	2.104

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>				Project (Number/Name) 858 / <i>Army Explosives Safety Management Program</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
858: <i>Army Explosives Safety Management Program</i>	-	0.972	1.489	1.511	-	1.511	1.538	1.538	1.553	1.569	0.000	10.170
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project establishes, validates or modifies explosives technical safety requirements per Department of Defense Pamphlet 385-64, Ammunition and Explosives Safety Standards. Project activities promote Research, Development, Test, and Evaluation (RDTE) of new and innovative explosives safety technologies that improve the survivability of Army personnel, facilities, and equipment as well as improve the health, safety and welfare of the general public.

FY 2025 funding will support continued testing, validation, and regulatory integration for permanent, temporary and mobile ammunition and explosives facilities focusing on construction and instrumentation of destructive test structures; data collection and analyses; policy change identification and implementation. The Defense Ammunition Center/US Army Technical Center for Explosives Safety (DAC/USATCES), Engineer Research and Development Center will team with and sponsor agencies (Joint Service, Academia, and Contractor) to improve the effectiveness of identifying, analyzing, and apply risk acceptance to ammunition and explosive environments. Naval Facilities Engineering and Expeditionary Warfare Center Branch to provide technical support in the areas of risk assessment Program, DDESB Science Panel, and the DoD protective construction.

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

	FY 2023	FY 2024	FY 2025
Title: Risk based explosives safety criteria	0.219	0.367	0.373
Description: Development of risk based explosives safety criteria that will aid commanders and safety personnel in the transition from regulation to risk management.			
FY 2024 Plans: Provide critical resources to support explosives testing in support of hazard research and exposure consequences. Assess hazards and risks for combat units. Development, promulgate and application of explosives safety technologies and practices.			
FY 2025 Plans: Provide critical resources to leverage the knowledge gained from extensive explosives testing and modeling to develop explosives safety risk-based consequence models and have these peer reviewed by panels of experts. Effort will develop, promulgate and apply explosives safety consequence technologies and practices.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding reflects planned lifecycle of the effort.			
Title: Development of enhanced protective structure designs	0.623	0.887	0.899

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 858 / <i>Army Explosives Safety Management Program</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Develop enhanced protective structure designs that improve the survivability of Army personnel, facilities and equipment.</p> <p>FY 2024 Plans: Destructive testing of protective infrastructure in support of safety regulation update to protect personnel/assets and improving protective structure design. Tailor and connect data driven Earth Covered Magazines and Above Ground Magazine (ECM/AGM) requirements to increase explosive storage capacity and reduce sustainment costs.</p> <p>FY 2025 Plans: Effort will fund destructive testing of protective infrastructure designs in support of safety regulation updates to protect personnel, facilities, and equipment while still executing mission requirements. FY 2025 dollars support second phase of explosives testing of a Hesco barricaded-container filled with 150 lbs of fragmenting munitions to validate the safety of personnel, facilities and equipment. This will allow warfighters to ensure quarters, TOC, and DFAC 200 feet from critical mission ammunition. Effort will also evaluate protective construction of new equipment installed at Army ammunition and explosives production facilities.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding reflects planned lifecycle of the effort.</p>			
<p>Title: Development of explosive safety tools</p> <p>Description: Develop explosive safety tools for use by Army personnel. Explosive safety tools allow commanders and safety personnel to make explosive safety decisions using risk management methodologies.</p> <p>FY 2024 Plans: Continue to develop new methods and tools for risk assessment to improve explosive safety risk management decisions. This program will develop and implement quantity distance requirements for labs and research facilities. Participate in Non- Army explosive safety testing and determine the orientation and configuration of explosives storage configurations.</p> <p>FY 2025 Plans: Effort will continue to develop new methods and tools for risk assessment to improve explosive safety risk management decisions. FY2025 efforts will develop and implement quantity distance requirements for labs and research facilities, RDT&E explosives ranges and production facilities. Effort will involve Non-Army explosive safety testing to leverage the knowledge of the other DOD Services and foreign partner nations to improve existing tools and develop new tools.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding reflects planned lifecycle of the effort.</p>	0.130	0.235	0.239
Accomplishments/Planned Programs Subtotals	0.972	1.489	1.511

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / Munitions Standardization, Effectiveness and Safety	Project (Number/Name) 858 / Army Explosives Safety Management Program

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>				Project (Number/Name) 859 / <i>Life Cycle Pilot Process</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
859: <i>Life Cycle Pilot Process</i>	-	23.585	5.838	5.873	-	5.873	5.875	5.938	6.003	6.063	0.000	59.175
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Life Cycle Pilot Process Project supports the implementation of the Single Manager for Conventional Ammunition (SMCA) Industrial Base Strategic Plan through technology investigations, pilot prototyping, and industrial assessments. Purpose is to develop a knowledge base for modern, cost effective, environmentally safe, and secure Industrial Base processes and practices. This project addresses technology, producibility, cost refinement, and supply chain risks for JPEO Armaments & Ammunition portfolio. Project 859 divides into three thrust areas: Single Point Failures (SPFs); Life Cycle Cost Refinement; and Manufacturing Technology for Industrial Base Transformation. Respectively this project will mitigate supply chain and source of supply concerns; refine overall product and manufacturing costs; and assess and implement modern/ industry-standard manufacturing processes to the Industrial Base.

FY2025 funding supports efforts to improve end item manufacturing costs; bridge technology transition between research and production; assess improved security processes; and evaluate alternative materials and processes to address supply chain risks and resiliency concerns. Specifically, resources will be directed to prove-out improved artillery explosive load operations, prove-out automated artillery propulsion operations, investigate improved waste treatment operations at government-owned contractor-operated facilities. Evaluate alternative Single Point Failure materials for close combat and large caliber munitions.

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

	FY 2023	FY 2024	FY 2025
Title: Life Cycle Cost Refinement	1.329	1.414	1.681
<p>Description: This thrust area seeks out new opportunities to reduce overall cost of armaments and ammunition components. Efforts will review and analyze legacy manufacturing processing for opportunities to integrate improved technology that can lead to increased operator safety and materials to lean manufacturing processes to reduce overall unit cost and utilization of greener materials.</p> <p>FY 2024 Plans: Assess alternative materials/components and alternative production processes to reduce end item and production costs for transition to the Army's Industrial Base; Efforts aligned with the Army Long Range Precision Fires CFT include but are not limited to improve load, assemble, and pack operations for artillery munition systems; reduction in Industrial Base waste disposal cost by assessing waste stream repurpose processes.</p> <p>FY 2025 Plans: Continue on-going assessments for alternative materials/components and alternative production processes to refine end item and production costs for transition to the Army's Industrial Base. Efforts align with the Army Long Range Precision Fires CFT but are</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 859 / <i>Life Cycle Pilot Process</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
not limited to load, assemble, and pack for ammunition operations, industrial base resiliency for energy and waste streams, and industrial base assessment for printed applications. FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding due to increase in program priorities to explore process technologies that improve existing life cycle cost for industrial base production.				
Title: Single Point Failures (SPFs) Description: This thrust area seeks to mitigate single source and no source of supply to armaments and ammunition manufacturing operations. Thrust area tests or evaluates alternative materials and processes to mitigate SPFs. These efforts are part of the overall strategy to reduce the number of SPFs in the National Technology and Industrial Base (NTIB). Additionally, thrust area efforts will address ammunition manufacturing capability shortfalls. This area leverages RDTE accomplishments and product knowledge to satisfy manufacturing requirements. FY 2024 Plans: Continue to assess technologies and material alternatives to mitigate single source and no source of supply for in production end items and end item components. Efforts include but not limited to; assessment of alternative production processes for military grade materials; alternative materials assessment for large caliber and grenade SPF mitigation. FY 2025 Plans: On-going assessment of alternative processes, technologies, and materials to mitigate single source and no source of supply for affected JPEO Armaments and Ammunition end-items and end-item components. Effort will complete titanium dioxide SPF mitigation. FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding to align resources to increased effort associated with Life Cycle Cost Refinement within this project.		0.864	1.980	1.868
Title: Manufacturing Technology for Industrial Base Transformation Description: This thrust area matures ammunition manufacturing technologies, processes to enhance manufacturing, security capabilities of legacy armaments and ammunition manufacturing operations. This thrust area will integrate the framework for digital manufacturing and engineering concepts to pilot and transition processes to affected industrial base for armaments and ammunition production operations. FY 2024 Plans: Continue supporting the Army's vision for transformational change across the ammunition industrial base to ensure modernized manufacturing methodologies, processes, and equipment. Design and prove-out improved artillery load, assemble and pack		3.392	2.444	2.324

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) 859 / <i>Life Cycle Pilot Process</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
operations and influence design considerations to production facilities. Investigations of robotic and automated manufacturing technologies, investigate manufacturing methodologies to reduce/transform energetic waste, provide safer manufacturing operations and improve manufacturing efficiencies for armaments and ammunition production operations. FY 2025 Plans: On-going evaluation of transformational manufacturing technology across the Army's industrial base enterprise. Continue to develop, design and prove-out improved artillery load, assemble and pack operations and influence design considerations to production facilities. Evaluate and asses printed ammunition manufacturing. Effort will continue to evaluate waste and energy technology solutions for the Ammunition Industrial Base as well as complete artillery body flow forming assessment. FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding to align resources to increased effort associated with Life Cycle Cost Refinement within this project.			
Accomplishments/Planned Programs Subtotals	5.585	5.838	5.873

	FY 2023	FY 2024
Congressional Add: Program increase - Foamable Celluloid Materials FY 2023 Accomplishments: Optimize foamable celluloid formulations and processing conditions for specific end-item characteristics, including burn rate and mechanical strength. Optimized material shall support test and evaluation activities	5.000	-
Congressional Add: Program increase - Neutron Radiography FY 2023 Accomplishments: Continuing non-destructive imaging techniques using high-energy neutron radiography. Enable neutron radiography imaging technology to improve quality, warfighter safety and lethality for artillery.	5.000	-
Congressional Add: Program increase- Additive Manufacturing for High Temperature Alloys FY 2023 Accomplishments: Modernization of advanced munition systems while enhancing lethality, range, and readiness. Sustain flexible agile manufacturing processes and technologies for Next Generation Armaments. Expand the ability to produce munitions on agile production line(s) that can switch between families of munitions and can be assessed for implementation in ammunition plants.	8.000	-
Congressional Adds Subtotals	18.000	-

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

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / Munitions Standardization, Effectiveness and Safety	Project (Number/Name) 859 / Life Cycle Pilot Process

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

D. Acquisition Strategy
N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) F21 / <i>NATO Ammo Evaluation</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>F21: NATO Ammo Evaluation</i>	-	0.738	0.772	0.774	-	0.774	0.775	0.783	0.792	0.800	0.000	5.434
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

North Atlantic Treaty Organization (NATO) Ammunition Evaluation program funding ensures interchangeability of ammunition and weapons among all the NATO countries with all of the associated logistic, strategic and tactical advantages of the alliance. This Project involves development and testing compliance of NATO standardization agreements (STANAGS) and staffing of the North American Regional Test Center (NARTC). In addition, this Project supports small caliber ammunition, 50mm ammunition, 40mm grenade munitions, medium caliber cannon ammunition, and large caliber ammunition enhancements to lethality, effectiveness, survivability, accuracy, and general product improvements. This Project also supports the standardization and interchangeability of legacy and new production United States (US) weapons and ammunition with Allied Nations to maximize battlefield interchangeability/ compatibility under the auspices of international agreements to include NATO working groups, the Joint Ballistics Memorandum of Understanding (JBMOU), and information/ data exchange agreements. Maximizing standardization, interchangeability, and exportability will also potentially increase Foreign Military Sales (FMS) of US indirect fire weapon and munition products to support United States industrial base production and affordable Department of Defense pricing through increased economies of scale. Fiscal Year 2025 funding will support NATO and JBMOU artillery and small arms ammunition interchangeability group meetings, documentation, and test operations.

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

	FY 2023	FY 2024	FY 2025
Title: New Ammo Design Qualification & NATO Mission Support	0.310	0.326	0.327
Description: This activity ensures complete interchangeability of small caliber, automated cannon-caliber, 40mm grenade ammunition, air burst capable 30mm/40mm ammunition, 50mm ammunition, large caliber ammunition and weapons among NATO countries to achieve the associated logistic, strategic and tactical advantages.			
FY 2024 Plans: Will continue work to support NATO small arms ammunition, direct fire grenade, and large caliber interchangeability group meetings, documentation and test operations.			
FY 2025 Plans: Will continue work to support NATO small arms ammunition, direct fire grenade, and large caliber interchangeability group meetings, documentation and test operations to enable interoperability among our allies.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding in order to meet NATO ammunition standardization objectives.			
Title: Joint Ballistics Program Support	0.428	0.446	0.447

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) F21 / <i>NATO Ammo Evaluation</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: The activity supports the maturation, validation, and risk reduction of battlefield interoperability/interchangeability/compatibility of technical data and associated enabling technologies between domestic US and NATO/Allied Nations indirect fires weapons and munitions.</p> <p>FY 2024 Plans: FY 2024 funding will continue to support NATO and JBMOU artillery documentation, interoperability testing and interchangeability group meetings.</p> <p>FY 2025 Plans: FY 2025 funding will continue to Support NATO and JBMOU artillery documentation, interoperability testing and interchangeability group meetings.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding in order to meet Joint Ballistic Program objectives.</p>			
Accomplishments/Planned Programs Subtotals	0.738	0.772	0.774

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>				Project (Number/Name) F24 / <i>Conventional Munitions Demil</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
F24: <i>Conventional Munitions Demil</i>	-	13.972	23.854	23.604	-	23.604	21.783	17.834	18.029	18.209	0.000	137.285
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Conventional Munitions Demilitarization Technology Project supports the Single Manager for Conventional Ammunition (SMCA) responsibility per Department of Defense Instruction (DoDI) 5160.68 to plan, program, budget and fund a Joint Service research and development program that develops capability and capacity as well as technology and facilities to support the SMCA mission to demilitarize and dispose of conventional ammunition stored in the SMCA Resource, Recovery and Disposition Account (B5A). Project goals include SMCA efforts to increase efficiencies and effectiveness to reduce the demil stockpile; reduce processing costs including packaging, handling and crating; and increase capacity through improved demil capabilities and processes. Project F24 includes several activities: (1) to establish requirements and develop processes to focus investments, assess capabilities, analyze alternatives, and recommend and implement RDT&E projects; (2) to improve products and processes that support existing capabilities; (3) to develop or improve demil methods and processes related to advance the primary demilitarization core thrust areas of destruction, disassembly, removal, resource recovery and recycling, and waste stream treatment; (4) to ensure safe and environmentally acceptable demil operations; (5) to transition RDT&E products to United States Army depots or plants as well as commercial facilities performing demil; and (6) to mitigate risk and close-out Project activities.

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

	FY 2023	FY 2024	FY 2025
Title: Advanced Destruction	4.068	4.266	4.319
Description: This effort focuses on developing capabilities and capacities for the destruction of obsolete and or unsafe munitions.			
FY 2024 Plans: Transition the Honest John Warhead demil capability to a CONUS Depot. Complete hardware improvements to reduce hazardous air pollutants generated in the demil capability for the 155mm projectile Family of Scatterable Mines (FASCAM) at the Munitions Cryofracture Disposal Facility (MCDF) and initiate final compliance testing.			
FY 2025 Plans: Transition the Honest John Warhead demil capability to a CONUS Depot including hardware, training package, standard operating procedure, and technical osculation. Complete hardware improvements to reduce hazardous air pollutants generated in the demil capability for the 155mm projectile Family of Scatterable Mines (FASCAM) at the Munitions Cryofracture Disposal Facility (MCDF) and initiate final compliance testing. Deliverables include improved thermal treatment components and technical documentation.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) F24 / <i>Conventional Munitions Demil</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Increase to program due to efforts in hardware improvements to reduce hazardous air pollutants generated in the demil capability for the 155mm projectile Family of Scatterable Mines (FASCAM) at the Munitions Cryofracture Disposal Facility (MCDF).				
<p>Title: Resource Recovery and Recycling (R3)</p> <p>Description: This effort focuses on enhancing existing methods of munitions R3, which will maximize sale of residual materials. Proceeds of R3 sales are reinvested in the Army Demilitarization mission to reduce the B5A stockpile.</p> <p>FY 2024 Plans: Complete Operational Demonstration of the Automated Scrap Inspection (ASI) capability at Tooele Army Depot (TEAD). Conduct operation demonstration of the size reduction of rocket motor grains capability. Initiate Hardware Design of a Plastic Shotgun Cartridge Demil Capability.</p> <p>FY 2025 Plans: Complete Operational Demonstration of the Automated Scrap Inspection (ASI) capability at Tooele Army Depot (TEAD). Deliverables include hardware and documentation Conduct operational demonstration of the size reduction of rocket motor grains capability. Deliverables include hardware, standard operating procedure (SOP), and test report.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase supports deliverable documentation for the Automated Scrap Inspection (ASI) capability at Tooele Army Depot (TEAD) and size reduction of rocket motor grains capability.</p>		3.137	3.993	4.042
<p>Title: Advanced Removal</p> <p>Description: This effort focuses on technology to remove propellant and energetics from munitions to allow closed disposal thermal treatment.</p> <p>FY 2024 Plans: Transition the D505 capability at McAlester Army Ammunition Plant. Transition a capability to demil 2.75" Rocket Motors.</p> <p>FY 2025 Plans: Planned activities include advancing the Artillery Projectile Smoke Canister Demil process.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding and program expansion is a direct outcome of intensified efforts to establish the capability for Demilitarizing Artillery Projectile Smoke Canisters.</p>		0.929	1.658	1.684
<p>Title: Advanced Waste Stream Treatment</p>		0.586	1.880	1.910

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) F24 / <i>Conventional Munitions Demil</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Description: This effort focuses on handling waste streams from munitions items to continue environmentally compliant closed disposal treatment.</p> <p>FY 2024 Plans: Planned initiatives include sub-scale testing of munitions containing Per- and poly-Fluoro A kyl Substances (PFAS/PFOS). These substances are persistent contaminants with toxic properties. PFAS polymers are commonly used in plastic bonded explosives (PBX), flares, O-rings, lubricants, and other components that need to withstand high heat. This project addresses potential pollutants from emittance during demil operations. Complete Final report on Air Emissions Sampling of Open Detonations and Provide Updated Emissions factors.</p> <p>FY 2025 Plans: Planned activities include conducting close disposal strategic planning for demil depots. Deliverable is draft plan to emplace close disposal capabilities at Demil depots to replace open burning and open detonation processes. Implementation of plan is contingent upon funding to setup multiple demil facilities.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in additional funds and expansion of the program are a result of heightened efforts in developing strategic planning documents for implementing alternative technologies aimed at executing the environmentally compliant close disposal of munitions</p>				
<p>Title: Advanced Munitions Disassembly</p> <p>Description: This effort focuses on developing innovative and efficient processes to disassemble munitions.</p> <p>FY 2024 Plans: Complete operational demonstration of the Flechette demil and disposal capability. Complete hardware installation of the L525 Smoke and Illumination Signal Demil capability. The F24 Project will initiate design and fabrication of Anti Personnel Landmine download lines for GATOR Cluster Bomb Units (CBU) and 155mm Area Denial Artillery Munitions (ADAM) projectiles.</p> <p>FY 2025 Plans: Complete design and installation of the Flechette demil and disposal capability. Conduct operational demonstration of the L525 Smoke and Illumination Signal Demil capability. The F24 Project will complete installation and conduct operational testing of Anti-Personnel Landmine download lines for GATOR Cluster Bomb Units (CBU) and 155mm Area Denial Artillery Munitions (ADAM) projectiles. Deliverables include capability hardware, technical documentation, and SOPs.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		5.252	12.057	11.649

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605805A / <i>Munitions Standardization, Effectiveness and Safety</i>	Project (Number/Name) F24 / <i>Conventional Munitions Demil</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Decrease in funding is due to the lower costs of anticipated closing activities for the 155mm Area Denial Artillery Munitions (ADAM) projectiles capability development.			
Accomplishments/Planned Programs Subtotals	13.972	23.854	23.604

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	1.842	1.629	1.659	-	1.659	1.344	1.357	1.373	1.387	0.000	10.591
031: <i>Environmentally Sustainable Acquisition/Logistics</i>	-	1.369	1.322	1.329	-	1.329	1.344	1.357	1.373	1.387	0.000	9.481
06I: <i>Environmental Quality Technology Support</i>	-	0.473	0.307	0.330	-	0.330	-	-	-	-	0.000	1.110

A. Mission Description and Budget Item Justification

This Program Element (PE) funds environmental quality technology related management support functions including support of research, development, test, and evaluation required for technical integration efforts at demonstration/validation test sites, technical information and activities, test facilities and general test instrumentation, and requirement assessments. Funds support the management of technology transfer associated with technology demonstrated and validated as part of Army environmental quality technology related projects. In addition, this PE provides support to the Army weapon system acquisition community to address environmental quality requirements under the Environmentally Sustainable Acquisition/Logistics Program.

The Environmentally Sustainable Acquisition/Logistics Project includes program management for developing acquisition strategies that achieve system key performance parameters and sustain the environment without permanent and unacceptable change to the natural environment or human health from system concept refinement through disposal. The Project involves systematic consideration of environmental impacts, energy use, natural resources, installation impacts, economics and quality of life. It provides support to the system acquisition community (Program and Project Managers) to integrate environmental quality analyses into the system acquisition process. The goal of the effort is to resolve environmental quality issues related to weapon systems that are identified during design, development, testing, operation, or support to reduce Army environmental liabilities and total ownership costs, including efforts to eliminate the use of hazardous and ozone-depleting materials from weapon systems and facilities.

The Environmental Quality Technology Support Project funds the management support costs to execute the Toxic Metals Reduction, Airborne Lead Reduction, and Low Global Warming Potential environmental quality technology programs, which support Cross Functional Teams and the Army's top modernization priorities by addressing potential obsolescence of legacy materials and current and emerging impacts on human health and the environment.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	1.912	1.629	1.326	-	1.326
Current President's Budget	1.842	1.629	1.659	-	1.659
Total Adjustments	-0.070	0.000	0.333	-	0.333
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.001	-			
• SBIR/STTR Transfer	-0.069	-			
• Adjustments to Budget Years	-	-	0.333	-	0.333

Change Summary Explanation

FY25 Increase supports continued efforts under the Safer Alternatives for Readiness (SAFR) Program within Program Element 0605857A, Project 06I, Environmental Quality Technology Management.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>				Project (Number/Name) 031 / <i>Environmentally Sustainable Acquisition/Logistics</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
031: <i>Environmentally Sustainable Acquisition/Logistics</i>	-	1.369	1.322	1.329	-	1.329	1.344	1.357	1.373	1.387	0.000	9.481
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Environmentally Sustainable Acquisition/Logistics (ESAL) Project provides support to the system acquisition community to integrate environmental quality issues and concerns into the life cycle system acquisition process, including human health risks, life safety, material obsolescence due to regulatory pressures, occupational exposures and energy efficiency. This includes helping the acquisition community address high priority issues associated with hexavalent chromium, cadmium and airborne lead. The focus of ESAL is on improving readiness, enabling mission capabilities, improving acquisition processes, reducing supportability burden, and minimizing total ownership cost. The Assistant Secretary of the Army for Installations, Energy and Environment has defined the functions of the ESAL project in coordination with the Army Acquisition Executive and the Assistant Secretary of the Army (Acquisition, Logistics, and Technology). This Project provides direct support to the Army acquisition community to pursue environmental sustainability and comply with legal statutes, policies and regulations during the life cycle of Army materiel. ESAL helps address Army Modernization Priorities, while sustaining readiness and achieving compliance with its weapon systems, industrial base, field and deployed activities directed by international treaties, Federal statutes, Executive Orders, Department of Defense (DoD) and Army policies and regulations.

Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM).

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

	FY 2023	FY 2024	FY 2025
Title: Environmental Quality (EQ) Support (DEVCOM)	0.611	0.591	0.593
Description: Provide EQ Support to Acquisition Programs via Cross Functional Teams (CFTs), Program Executive Offices (PEOs) and Program Managers (PMs).			
FY 2024 Plans: Will provide support to CFTs, PEOs and PMs to integrate EQ considerations into systems engineering activities. This will include fulfillment of National Environmental Policy Act requirements, definition of EQ technology needs to meet operational requirements, analysis of technical data to support implementation decisions, participation in technical and cost risk assessment activities, and assessment and revision of contractual and operational requirements for successful technology integration, operation and support. Will analyze impending statutes and regulations impacting production, operation and support of weapon systems. Will assess weapon system readiness impacts (e.g., production levels, training, operational tempo, and maintenance activities) resulting from EQ issues affecting industrial base and garrisons. Will provide Army acquisition community representation in select Office of the Secretary of Defense and Department of the Army committees addressing environmental legislation and rulemaking.			
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>	Project (Number/Name) 031 / <i>Environmentally Sustainable Acquisition/Logistics</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Will provide support to CFTs, PEOs and PMs to integrate EQ considerations into systems engineering activities. This will include fulfillment of National Environmental Policy Act requirements, definition of EQ technology needs to meet operational requirements, analysis of technical data to support implementation decisions, participation in technical and cost risk assessment activities, and assessment and revision of contractual and operational requirements for successful technology integration, operation and support. Will analyze impending statutes and regulations impacting production, operation and support of weapon systems. Will assess weapon system readiness impacts (e.g., production levels, training, operational tempo, and maintenance activities) resulting from EQ issues affecting industrial base and garrisons. Will provide Army acquisition community representation in select Office of the Secretary of Defense and Department of the Army committees addressing environmental legislation and rulemaking.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase is an economic adjustment.</p>				
<p>Title: Environmental Quality Technology Management (DEVCOM)</p> <p>Description: Provide management support for Army EQ technology efforts through the Safer Alternatives for Readiness (SAFR) program.</p> <p>FY 2024 Plans: Will provide system acquisition support to the Army's SAFR program and coordination of EQ-related system needs for expanded Research, Development, Test and Evaluation efforts in support of Army Modernization Priorities. Will manage and oversee technology integration efforts by Army Life Cycle Management Commands for weapon systems in all stages of design, procurement and operations/support. Will coordinate technology requirements among members of the Army EQ Technology Teams and Cross Functional Teams, will coordinate technology evaluations and operational requirements in support of weapon system platform integration, will manage and oversee test plan development, will oversee testing activities, and will analyze test results to support weapon systems engineering decision making.</p> <p>FY 2025 Plans: Will provide system acquisition support to the Army's SAFR program and coordination of EQ-related system needs for expanded Research, Development, Test and Evaluation efforts in support of Army Modernization Priorities. Will manage and oversee technology integration efforts by Army Life Cycle Management Commands for weapon systems in all stages of design, procurement and operations/support. Will coordinate technology requirements among members of the Army EQ Technology Teams and Cross Functional Teams, will coordinate technology evaluations and operational requirements in support of weapon system platform integration, will manage and oversee test plan development, will oversee testing activities, and will analyze test results to support weapon systems engineering decision making.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		0.758	0.731	0.736

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>	Project (Number/Name) 031 / <i>Environmentally Sustainable Acquisition/Logistics</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Funding increase is an economic adjustment.			
Accomplishments/Planned Programs Subtotals	1.369	1.322	1.329

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

N/A

Remarks

D. Acquisition Strategy

TBD

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>				Project (Number/Name) 061 / <i>Environmental Quality Technology Support</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
061: <i>Environmental Quality Technology Support</i>	-	0.473	0.307	0.330	-	0.330	-	-	-	-	0.000	1.110
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides Research, Development, Test, & Evaluation (RDTE) Management Support for the demonstration and validation of innovative environmental quality technologies to modernize materials and processes required for current and future operational sustainment and warfighter training capabilities. The Project supports technologies that increase life safety, reduce Soldier and worker human health risks, enhance readiness, and enable mission capabilities of the current and future force, while simultaneously increasing performance and standardization across the Army. This Project provides for management of RDTE activities conducted under Program Element 0603779A (Environmental Quality Technology Dem/Val) / Project E21 (Environmental Quality Technology Dem/ Val), which supports the Cross Functional Teams and the Army's top modernization priorities by addressing potential obsolescence of legacy materials and current and emerging impacts on human health and the environment. The Project expedites technology transition from the laboratory to operational use by establishing toxicology assessments to support the demonstration of modern materials and processes fulfilling or surpassing the performance requirements outlined in Material Specifications, Depot Maintenance Work Requirements, Technical Manuals, Drawings, and other technical data.

Work in this Project is performed by the United States Army Futures Command (AFC), U.S. Army Combat Capabilities Development Command (DEVCOM).

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

	FY 2023	FY 2024	FY 2025
Title: Management of Army Environmental Quality Technology Programs (DEVCOM)	0.473	0.307	0.330
Description: Manage and oversee the demonstration/validation of weapon system pollution prevention technologies through the Safer Alternatives for Readiness (SAFR) program, with a focus on eliminating the high priority issues associated with hexavalent chromium, cadmium and airborne lead through material substitution.			
FY 2024 Plans: Will manage and oversee the demonstration/validation of three SAFR technology efforts that support the Future Vertical Lift, Next Generation Combat Vehicle, Long Range Precision Fire and Soldier Lethality Army modernization priorities: Toxic Metal Reduction in Surface Finishing of Army Weapon Systems; Airborne Lead Reduction from Army Weapon Systems; and Low Global Warming Potential Alternatives to Ozone Depleting Substances.			
FY 2025 Plans: Will manage and oversee the demonstration/validation of three SAFR technology efforts that support the Future Vertical Lift, Next Generation Combat Vehicle, Long Range Precision Fire and Soldier Lethality Army modernization priorities: Toxic Metal			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>	Project (Number/Name) 061 / <i>Environmental Quality Technology Support</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Reduction in Surface Finishing of Army Weapon Systems; Airborne Lead Reduction from Army Weapon Systems; and Low Global Warming Potential Alternatives to Ozone Depleting Substances.				
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funds increase is an economic adjustment.				
Accomplishments/Planned Programs Subtotals		0.473	0.307	0.330
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy N/A				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605898A / <i>Army Direct Report Headquarters - R&D - MHA</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	53.003	55.843	59.727	-	59.727	59.845	60.503	61.184	61.830	0.000	411.935
FJ2: <i>Army SHARP RDTE</i>	-	1.199	1.254	1.179	-	1.179	1.179	1.179	1.179	1.179	0.000	8.348
M65: <i>Army Test and Evaluation Command</i>	-	51.804	54.589	58.548	-	58.548	58.666	59.324	60.005	60.651	0.000	403.587

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

This Program Element (PE) provides funding for the salaries and related personnel benefits for authorized civilian personnel positions that provide for the management functions and the technical direction of the United States (U.S.) Army Test and Evaluation Command (ATEC) mission located at Aberdeen Proving Ground (APG), Maryland (Project M65 Army Test and Evaluation Command). It also provides funds for Army Headquarters to study and improve the Sexual Harassment / Assault Response and Prevention program (Project FJ2 Army SHARP RDTE).

ATEC plans, conducts and integrates developmental testing, independent operational testing, independent evaluations, and assessments to provide essential information to Soldiers and acquisition decision makers supporting the American Warfighter. Additionally, ATEC provides Direct Support to Army Futures Command (AFC). ATEC provides testing and independent evaluation support to AFC Cross Functional Team (CFT) efforts including risk reduction support to experiments, demonstrations, requirements, research, development, and acquisition. As such, ATEC priorities are aligned to the Army's Modernization priorities.

Project M65 includes the following functions: human resources, safety, security, environmental, strategic planning, operations, engineering and logistics, resource management, test capabilities management, policy and standardization, public affairs, legal, Inspector General, Equal Opportunity, and information/ technology support for command-wide efforts in support of the developmental, evaluation and operational test missions with technical direction to the Army Evaluation Center (AEC), APG, Maryland; to the Operational Test Command (OTC), Fort Hood, Texas which consists of three forward Test Directorates (Airborne and Special Operations Test Directorate, Fort Bragg, North Carolina; Air Defense Artillery Test Directorate, Fort Bliss, Texas; and the Fires Test Directorate, Fort Sill, Oklahoma) together with four other Test Directorates (Aviation; Maneuver; Mission Command; Maneuver Support and Sustainment) at Ft Hood, Texas; and to the seven Major Range and Test Facility Base (MRTFBs) and one non-MRTFB test range: Aberdeen Test Center (ATC) at APG, Maryland; West Desert Test Center (WDTC) at Dugway Proving Ground (DPG), Utah; Electronic Proving Ground (EPG) at Fort Huachuca, Arizona; White Sands Test Center (WSTC) at White Sands Missile Range (WSMR), New Mexico; Yuma Test Center (YTC) at Yuma Proving Ground (YPG), Arizona; Cold Regions Test Center (CRTC) at Fort Greely, Alaska; and Tropic Regions Test Center (TRTC) at various locations, as well as for Redstone Test Center (RTC) at Redstone Arsenal, Alabama. This is the operating budget for ATEC Headquarters, which provides technical direction for the annual execution of approximately 2,100 developmental tests; approximately 57 operational events; and approximately 1100 Evaluation and Safety documents supporting Army Signature Modernization Efforts and other acquisition programs. It also provides funding to address enterprise level operating requirements that support the entire command and its three missions. ATEC's total authorized workforce amounts to a \$1.8 billion program in direct and reimbursable funding.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605898A / <i>Army Direct Report Headquarters - R&D - MHA</i>
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Project FJ2 provides Army Management Headquarters a critical research capability to improve the Army Sexual Harassment / Assault Response and Prevention (SHARP) program, with a specific focus on prevention.

This PE does not finance test facility operations, test instrumentation, or test equipment.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	53.271	55.843	56.435	-	56.435
Current President's Budget	53.003	55.843	59.727	-	59.727
Total Adjustments	-0.268	0.000	3.292	-	3.292
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.001	-			
• SBIR/STTR Transfer	-0.269	-			
• Adjustments to Budget Years	-	-	3.292	-	3.292

Change Summary Explanation

Increased funding in FY25 due to civilian pay adjustments and related economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605898A / Army Direct Report Headquarters - R&D - MHA				Project (Number/Name) FJ2 / Army SHARP RDTE			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FJ2: Army SHARP RDTE	-	1.199	1.254	1.179	-	1.179	1.179	1.179	1.179	1.179	0.000	8.348
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds contracts that cover critical research needs of the Army Sexual Harassment / Assault Response and Prevention (SHARP) Office and the greater Army with a specific focus on prevention. Ongoing efforts to meet the first goal will explore the nature of sexual harassment in the Army, identify the organizational costs related to harassment (e.g., increased turnover, lower job satisfaction, and job performance), and examine the role of sexual harassment as it relates to sexual assault within the continuum of harm. Based on these studies, the performer will recommend effective sexual harassment prevention strategies. Studies will ensure that Army SHARP programs build climates for dignity and respect free of sexual harassment.

To meet the second goal, studies will examine behavioral patterns in offending within military sexual assault cases. For instance, behavioral patterns may reveal the nature of military sexual assault or identify potential vulnerabilities that could lead someone to perpetrate sexual assault. Studies may also be informed by offender patterns observed in research using administrative data sources. Based on this research, the performer will identify ways to reduce risk of sexual offending behavior, recommend ways to improve skills and abilities that will bolster one's ability to engage in healthy relationships, and inform effective sexual assault prevention practices.

To meet the third goal, research will (1) conduct male-specific assessments and (2) conduct other assessments that will assess the efficacy of training/prevention/outreach efforts related to sexual assault. The research will characterize the behaviors associated with military men's victimization and how they differ from those of service women, men's decision processes to file a formal report of sexual assault, and their experiences with the military sexual assault response systems. In particular, the research will focus on male victimization that occurred during military service rather than childhood sexual assault. Based on this research, the performer will identify ways to improve tailored recommendations for responding to and supporting male victims. This research will improve Department of Defense (DoD) prevention and response for male Service members. To meet the second part of this goal, the research may conduct assessments to evaluate the efficacy of training/prevention/outreach efforts related to sexual assault. This may involve conducting evaluation research to assess the effectiveness of individual programs or practices. Based on this research, the performer will determine whether these programs are effective and propose ways to improve SHARP efforts. This research will ensure that SHARP programs deliver effective training/ prevention/outreach.

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

	FY 2023	FY 2024	FY 2025
Title: Role Identifications	1.199	1.254	1.179
Description: Funding is required to ensure that Army SHARP is in compliance with multiple Service or DoD requirements. National Defense Authorization Act (NDAA) Requirement S585 (FY 2012) requires the development of Sexual Assault Prevention and Response (SAPR) curriculum for Service members and civilian employees, NDAA Requirement 1725c (FY 2014) requires the identification of qualifications needed for Service and civilian personnel who are assigned to positions that include SAPR functions, NDAA Requirement S1733 requires the review of SAPR training and recommendations for modification based on			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605898A / Army Direct Report Headquarters - R&D - MHA	Project (Number/Name) FJ2 / Army SHARP RDTE

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>identified inadequacies, and NDAA Requirement S538 (FY 2016) dictates that the Services develop efforts to improve prevention and response for male victims of sexual assault. Conducting research to meet these requirements is a necessary step in ensuring that training, prevention and outreach activities are having the desired effect and impact on the Total Force.</p> <p>FY 2024 Plans: SHARP is continuing the multi-year research plan that enables SHARP to develop evidence-based interventions for preventing and responding to "sexual misconduct" in the Army. The knowledge and outcomes from the project will inform the research requirements to meet the goals and objectives of SHARP in developing prevention strategies, policies, and assessment metrics in accordance with the SECDEF directed implementation of the Independent Review Commission (IRC) recommendations for an Integrated Prevention Workforce. SHARP continues the multi-year implementation of the OSD 90-day Independent Review Commission findings, decisions for SHARP re-design, prevention-focused efforts, and required program assessments.</p> <p>FY 2025 Plans: SHARP is continuing the multi-year research plan that enables SHARP to develop evidence-based interventions for preventing and responding to "sexual misconduct" in the Army. The knowledge and outcomes from the project will inform the research requirements to meet the goals and objectives of SHARP in developing prevention strategies, policies, and assessment metrics in accordance with the SECDEF directed implementation of the Independent Review Commission (IRC) recommendations for an Integrated Prevention Workforce. SHARP continues the multi-year implementation through FY29 of the OSD 90-day Independent Review Commission findings, decisions for SHARP re-design, prevention-focused efforts, and required program assessments.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease is based on current estimates for FY25 requirements aligning to OSD requirements for assessments of program actions taken to prevent and respond to Sexual Harassment and Assault.</p>			
Accomplishments/Planned Programs Subtotals	1.199	1.254	1.179

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

N/A

Remarks

MDEP:VSHP does not have any other Army Line Item associated with this project.

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605898A / Army Direct Report Headquarters - R&D - MHA				Project (Number/Name) M65 / Army Test and Evaluation Command			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
M65: Army Test and Evaluation Command	-	51.804	54.589	58.548	-	58.548	58.666	59.324	60.005	60.651	0.000	403.587
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides funding for the salaries and related personnel benefits for the authorized civilian personnel positions that provide for the management functions and the technical direction of the United States (U.S.) Army Test and Evaluation Command (ATEC) mission located at Aberdeen Proving Ground (APG), Maryland. ATEC plans, conducts and integrates developmental testing, independent operational testing, independent evaluations, and assessments to provide essential information to Soldiers and acquisition decision makers supporting the American Warfighter. Additionally, ATEC provides Direct Support to the Army Futures Command (AFC). ATEC provides testing and independent evaluation support to AFC Cross Functional Team (CFT) efforts including risk reduction support to experiments, demonstrations, requirements, research, development, and acquisition. As such, ATEC priorities are aligned to the Army's Modernization priorities.

This Project resources the workforce to execute the following functions: human resources, safety, security, environmental, strategic planning, operations, engineering and logistics, resource management, test capabilities management, policy and standardization, public affairs, legal, Inspector General, Equal Opportunity, and information/ technology support for command-wide databases in support of the developmental, evaluation and operational test mission with technical direction to the Army Evaluation Center (AEC), APG, Maryland; to the Operational Test Command (OTC), Fort Hood, Texas which consists of three forward Test Directorates (Airborne and Special Operations Test Directorate, Fort Bragg, North Carolina; Air Defense Artillery Test Directorate, Fort Bliss, Texas; and the Fires Test Directorate, Fort Sill, Oklahoma) together with four other Test Directorates (Aviation; Maneuver; Mission Command; Maneuver Support and Sustainment) at Ft Hood, Texas; and to the seven Major Range and Test Facility Base (MRTFBs) and one non-MRTFB test range: Aberdeen Test Center (ATC) at APG, Maryland; West Desert Test Center (WDTTC) at Dugway Proving Ground (DPG), Utah; Electronic Proving Ground (EPG) at Fort Huachuca, Arizona; White Sands Test Center (WSTC) at White Sands Missile Range (WSMR), New Mexico; Yuma Test Center (YTC) at Yuma Proving Ground (YPG), Arizona; Cold Regions Test Center (CRTC) at Fort Greely, Alaska; and Tropic Regions Test Center (TRTC) at various locations, as well as for Redstone Test Center (RTC) at Redstone Arsenal, Alabama. This is the operating budget for ATEC Headquarters, which provides technical direction for the annual execution of approximately 2,100 developmental tests; approximately 57 operational events; and approximately 1100 Evaluation and Safety documents supporting Army Signature Modernization Efforts and other acquisition programs. It also provides funding to address enterprise level operating requirements that support the entire command and its three missions. ATEC's total authorized workforce amounts to a \$1.8 billion program in direct and reimbursable funding.

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

	FY 2023	FY 2024	FY 2025
Title: ATEC	50.770	54.589	58.548
Description: Civilian labor and other support required to manage and administer the Army test and evaluation mission at ATEC. ATEC plans, conducts, and integrates developmental testing, independent operational testing, independent evaluations,			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605898A / Army Direct Report Headquarters - R&D - MHA	Project (Number/Name) M65 / Army Test and Evaluation Command

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>assessments and experiments to provide essential information to Soldiers and acquisition decision makers supporting the American Warfighter.</p> <p>FY 2024 Plans: Will continue to fund authorized civilian salaries, associated operating expenses (supplies, equipment, travel, software licensing, etc.) and other support required to manage and administer the Army test and evaluation mission at ATEC. Contractual requirements include: on-site Information Technology (IT) Help Desk that provides computer hardware and software troubleshooting solutions to the ATEC workforce, sustainment operations for multiple ATEC focused Defense Business Systems (DBS) such as US Army Test and Evaluation Command Decision Support Systems (ADSS) , Video Tele-Conferencing (VTC) hardware procurement and operational maintenance support to ensure that ATEC leadership is able to interface with both Army senior leadership and subordinate commands, property book and divestiture support that maintains accountability of Army equipment and minor maintenance and repair operations that support multiple ATEC facilities.</p> <p>FY 2025 Plans: Will continue to fund authorized civilian salaries, associated operating expenses (supplies, equipment, travel, software licensing, etc.) and other support required to manage and administer the Army test and evaluation mission at ATEC. Contractual requirements include: on-site Information Technology (IT) Help Desk that provides computer hardware and software troubleshooting solutions to the ATEC workforce, sustainment operations for multiple ATEC focused Defense Business Systems (DBS) such as US Army Test and Evaluation Command Decision Support Systems (ADSS) , Video Tele-Conferencing (VTC) hardware procurement and operational maintenance support to ensure that ATEC leadership is able to interface with both Army senior leadership and subordinate commands, property book and divestiture support that maintains accountability of Army equipment and minor maintenance and repair operations that support multiple ATEC facilities.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding is a response to economic assumptions related to non-pay and non-fuel purchases.</p>			
<p>Title: Army Enterprise Business Systems (EBS) Consolidation- Command Decision Support Systems</p> <p>Description: The Army consolidated Enterprise Business Systems (EBS) under the Acquisition Domain. The consolidation resulted in the transfer of funding \$1.034 million in support of ATEC's Command Decision Support tools (Army Test and Evaluation Command Decision Support system (ADSS), Technology Development and Acquisition Program (TDAP), Test & Evaluation: US Army Test Facilities Register (TESTFACS), Versatile Information System Integrated Online Nationwide (VISION), and the Versatile Information System Integrated Online Nationwide SIPR (VISION-SIPR).</p>	1.034	-	-
Accomplishments/Planned Programs Subtotals	51.804	54.589	58.548

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605898A / Army Direct Report Headquarters - R&D - MHA	Project (Number/Name) M65 / Army Test and Evaluation Command

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0606002A / <i>Ronald Reagan Ballistic Missile Defense Test Site</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	85.873	91.340	73.400	-	73.400	72.435	73.209	74.011	74.741	0.000	545.009
XW9: <i>Reagan Test Site</i>	-	85.873	91.340	73.400	-	73.400	72.435	73.209	74.011	74.741	0.000	545.009

A. Mission Description and Budget Item Justification

This funding line supports testing of Army Modernization Priority Programs.

The Ronald Reagan Ballistic Missile Defense Test Site (RTS), with its remote location and one-of-a-kind instrumentation systems, provides a valuable strategic test environment that cannot be replicated. Its function is to: 1) support test and evaluation of major Army and Department of Defense (DOD) acquisition programs of strategic importance to the national defense; and 2) provide space operations and intelligence data (Space Situational Awareness, object tracking & identification) in support of United States Strategic Command (USSTRATCOM), acting as a high value contributing sensor to the United States (U.S.) Space Surveillance Network. Due to its unique geography and instrumentation, RTS is able to provide unmatched data collection capabilities that provide critical test data for programs of national interest to include: Army Missile Defense; Defense Advanced Research Projects Agency hypersonic Boost-Glide developmental tests; Air Force and Navy Intercontinental Ballistic Missile (ICBM) developmental and operational tests; Army, Air Force, Navy, and Missile Defense Agency (MDA) operational, demonstration, and validation tests; National Aeronautics and Space Administration (NASA) scientific and unique space programs; NASA ionospheric studies; space debris tracking; and data collection in support of space experiments.

Funding in this Program Element (PE) covers management and contracting personnel support (salaries and travel) to enable the management of the test and evaluation of major Army and DoD missile systems for the RTS. Funds also provide contracting support for end item procurement, life cycle acquisition planning, and solicitation, negotiation, award, execution and management for weapon systems contracts. This PE provides contractors to accomplish key operations and maintenance functions for RTS instrumentation suites and also provides mission essential bandwidth via a fiber optic cable system. Funds provide the expertise required for operating and maintaining a number of one-of-a-kind radar, optical, telemetry, command/control/communications, safety, and data reduction systems. These systems include: the four unique radars of the Kiernan Reentry Measurement Site; Super Recording Automatic Digital Optical Tracker long range video-metric tracking systems; high density data recorders for high data-rate telemetry collected by ten antennas; an underwater acoustic impact location system; and data analysis/reduction hardware/software and Continental United States (CONUS) based mission control center. The Advanced Research Project Agency Long-Range Tracking and Instrumentation Radar and the Target Resolution Discrimination Experiment radars located at RTS are the only radars in this area of operation that have deep-space tracking capability. The Millimeter Wave Radar is one of the highest resolution imaging radars in the world, providing critical intelligence data. Funding also enables weapon system assessment of operational effectiveness and suitability for the Army, Air Force, Navy and MDA, which all have programs planned that have significant test and data gathering requirements at RTS. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of RTS. Program supports Army's PATRIOT air defense system; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, ICBM Targets, and Layered Ballistic Missile Defense operational tests (including: PATRIOT, Terminal High-Altitude Area Defense, and Aegis Weapon System), and NASA's space experiments.

FY25 funding in the amount of \$22.880 million is in support of the Pacific Defense Initiative.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0606002A / <i>Ronald Reagan Ballistic Missile Defense Test Site</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	89.602	91.340	73.243	-	73.243
Current President's Budget	85.873	91.340	73.400	-	73.400
Total Adjustments	-3.729	0.000	0.157	-	0.157
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.918	-			
• SBIR/STTR Transfer	-2.811	-			
• Adjustments to Budget Years	-	-	0.157	-	0.157

Change Summary Explanation
Increase is due to revised economic assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0606002A / <i>Ronald Reagan Ballistic Missile Defense Test Site</i>				Project (Number/Name) XW9 / <i>Reagan Test Site</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
XW9: <i>Reagan Test Site</i>	-	85.873	91.340	73.400	-	73.400	72.435	73.209	74.011	74.741	0.000	545.009
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project funds management and contracting personnel support (salaries and travel) to enable the management of the test and evaluation of major Army and DoD missile systems for the RTS. Funds also provide contracting support for end item procurement, life cycle acquisition planning, and solicitation, negotiation, award, execution and management for weapon systems contracts. This PE provides contractors to accomplish key operations and maintenance functions for RTS instrumentation suites and also provides mission essential bandwidth via a fiber optic cable system. Funds provide the expertise required for operating and maintaining a number of one-of-a-kind radar, optical, telemetry, command/control/communications, safety, and data reduction systems. These systems include the four unique radars of the Kiernan Reentry Measurement Site; Super Recording Automatic Digital Optical Tracker long range video-metric tracking systems; high density data recorders for high data-rate telemetry collected by ten antennas; an underwater acoustic impact location system; and data analysis/reduction hardware/software and Continental United States (CONUS) based mission control center. The Advanced Research Project Agency Long-Range Tracking and Instrumentation Radar and the Target Resolution Discrimination Experiment radars located at RTS are the only radars in this area of operation that have deep-space tracking capability. The Millimeter Wave Radar is one of the highest resolution imaging radars in the world, providing critical intelligence data. Funding also enables weapon system assessment of operational effectiveness and suitability for the Army, Air Force, Navy and MDA, which all have programs planned that have significant test and data gathering requirements at RTS. This test data cannot be obtained except through the use of technical facilities available on and in the vicinity of RTS. Program supports Army's PATRIOT air defense system; Air Force's Minuteman III ICBM and the Space and Missile Center's associated programs; MDA's Ballistic Missile Defense System, ICBM Targets, and Layered Ballistic Missile Defense operational tests (including: PATRIOT, Terminal High-Altitude Area Defense, and Aegis Weapon System), and NASA's space experiments.

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

	FY 2023	FY 2024	FY 2025
Title: Civilian Pay	7.306	7.600	7.900
Description: This effort covers operations and mission support functions at the RTS and is managed by USASMDC.			
FY 2024 Plans: Will continue to provide government personnel support (salaries) to enable the management of the test and evaluation of major Army and DoD missile systems.			
FY 2025 Plans: Continue to provide government personnel support (salaries) to enable the management of the test and evaluation of major Army and DoD missile systems.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606002A / <i>Ronald Reagan Ballistic Missile Defense Test Site</i>	Project (Number/Name) XW9 / <i>Reagan Test Site</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Increase in funding is a response to economic assumption				
<p>Title: Temporary Duty (TDY)/Training/Supplies - Military and Civilian</p> <p>Description: Funding will provide for travel and training for civilians and military to assist in the testing of the Army and DoD Missile system Programs.</p> <p>FY 2024 Plans: Will continue to provide government personnel support (training and travel) to enable the management of the test and evaluation of major Army and DoD missile systems.</p> <p>FY 2025 Plans: Continue to provide government personnel support (training and travel) to enable the management of the test and evaluation of major Army and DoD missile systems.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding is a response to economic assumptions.</p>		0.850	1.000	1.050
<p>Title: Outside Obligations/Other Government Agencies (OGAs)</p> <p>Description: Funding provided to other Government Agencies for reimbursable-type work efforts.</p> <p>FY 2024 Plans: Will continue to provide support to test and evaluation of major Army and DoD missile systems.</p> <p>FY 2025 Plans: Continue to provide support to test and evaluation of major Army and DoD missile systems.</p>		3.202	3.300	3.300
<p>Title: Fiber Optic Cable (Kwajalein Cable System (KCS))/Inner Ring Submarine</p> <p>Description: Fiber Optic Cable provides lease cost for Fiber Optic Cable between Kwajalein and Guam.</p> <p>FY 2024 Plans: Will continue to provide funding for lease of the KCS fiber optic cable between Kwajalein Island and Guam. Will fund annual cable maintenance agreement.</p> <p>FY 2025 Plans: Continue to provide funding for lease of the KCS fiber optic cable between Kwajalein Island and Guam. Continue to fund annual cable maintenance agreement.</p>		6.614	6.000	6.000
Title: RTS Contractor Labor		51.688	56.890	38.450

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606002A / <i>Ronald Reagan Ballistic Missile Defense Test Site</i>	Project (Number/Name) XW9 / <i>Reagan Test Site</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Provide funding for Prime contractor and other contract support to perform technical test and space missions.</p> <p>FY 2024 Plans: Contractor personnel will continue to provide technical support (test planning, instrumentation operations and maintenance, systems engineering, flight safety, and launch ordnance) to assure the capability of the Range to support test and space missions.</p> <p>FY 2025 Plans: Contractor personnel will continue to provide technical support (test planning, instrumentation operations and maintenance, systems engineering, flight safety, and launch ordnance) to assure the capability of the Range to support test and space missions.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding is due to the completion of the planned Cyber RMF effort.</p>			
<p>Title: Contractor Material</p> <p>Description: Provide for materials to maintain range capabilities and support test operations.</p> <p>FY 2024 Plans: Will continue to provide critical non-labor materials to maintain critical range capabilities and prevent obsolescence in support of test operations.</p> <p>FY 2025 Plans: Continue to provide critical non-labor materials to maintain critical range capabilities and prevent obsolescence in support of test operations.</p>	7.204	7.300	7.300
<p>Title: Federally Funded Research and Development Centers (FFRDC) Contractor Pay</p> <p>Description: Provide for technical expertise to RTS leadership for the overall performance of Range Operations.</p> <p>FY 2024 Plans: Will continue to provide technical advice to RTS leadership in support of Range operations, strategic planning, and technical execution of critical technology.</p> <p>FY 2025 Plans: Continue to provide technical advice to RTS leadership in support of Range operations, strategic planning, and technical execution of critical technology.</p>	4.404	4.500	4.500
<p>Title: Contractor Meteorological</p>	2.704	2.800	2.800

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606002A / <i>Ronald Reagan Ballistic Missile Defense Test Site</i>	Project (Number/Name) XW9 / <i>Reagan Test Site</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Provide capability for weather sensing capability which allows for test planning and execution of the program.</p> <p>FY 2024 Plans: Will continue to provide support for sustained weather sensing capabilities, including weather reporting via radar data. This capability provides critical data to test planning and execution.</p> <p>FY 2025 Plans: Continue to provide support for sustained weather sensing capabilities, including weather reporting via radar data. This capability provides critical data to test planning and execution.</p>			
<p>Title: Ground Transportation</p> <p>Description: Provide transportation of material and passenger between Kwajalein and continental U.S. (CONUS).</p> <p>FY 2024 Plans: Continuing to provide mission specific material and passenger transportation via air (Air Mobility Command) and sea (Surface Deployment and Distribution Command) between Kwajalein Atoll and CONUS.</p> <p>FY 2025 Plans: Continue to provide mission specific material and passenger transportation via air (Air Mobility Command) and sea (Surface Deployment and Distribution Command) between Kwajalein Atoll and CONUS.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding is a response to economic assumptions.</p>	0.964	1.000	1.100
<p>Title: Mission Specific Environmental</p> <p>Description: Ensures Range Readiness and all regulatory environmental requirements are compliant with range and test requirements.</p> <p>FY 2024 Plans: Will continue to provide the capability to assess and maintain the Range Readiness and compliance with environmental requirements. Begin planning for RTS enhancements to support future DoD test requirements.</p> <p>FY 2025 Plans: Continue to provide the capability to assess and maintain the Range Readiness and compliance with environmental requirements. Continue to provide RTS enhancements to support future DoD test requirements.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>	0.937	0.950	1.000

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606002A / <i>Ronald Reagan Ballistic Missile Defense Test Site</i>	Project (Number/Name) XW9 / <i>Reagan Test Site</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Increase is due to economic assumptions.			
Accomplishments/Planned Programs Subtotals	85.873	91.340	73.400

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support	R-1 Program Element (Number/Name) PE 0606003A / CounterIntel and Human Intel Modernization
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	1.424	6.348	4.574	-	4.574	4.675	4.778	4.883	4.990	Continuing	Continuing
F19: Counterl Intel and Human Intel Modernization	-	1.424	6.348	4.574	-	4.574	4.675	4.778	4.883	4.990	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Counterintelligence (CI) and Human Intelligence (HUMINT) Modernization Project supports ongoing rejuvenation and development of new critical CI and HUMINT systems, applications, tools, equipment, and capabilities necessary to defeat foreign intelligence, international terrorist, and insider threats while enhancing our HUMINT collection capability, management processes, and responsiveness. The required tools provide Army and DoD leadership, commanders, and warfighters the intelligence necessary for making advantageous operational planning, policies, and timely decisions. Modernization of these systems is a core component of protecting Army technologies and ensuring overmatch on current and future battlefields.

CI Support to Force Protection (CIFP) provides for updating the CI Threat Module, the Army CI Operations Portal (ACOP), and partnering with other Service CI entities on a joint CI analysis system development project. Will support development and testing of software code integrating existing and new algorithms to multiple data sources to record, identify, sort, and prioritize information.

The Castle Keep Portal is the Army's enterprise capability to automate workflow services, SCI program reporting, metrics, analysis, and information sharing to protect classified information within and across the defense elements of the Intelligence Community.

B. Program Change Summary (\$ in Millions)

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	1.424	6.348	3.450	-	3.450
Current President's Budget	1.424	6.348	4.574	-	4.574
Total Adjustments	0.000	0.000	1.124	-	1.124
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	1.124	-	1.124

Change Summary Explanation

Increased funding to address increased costs associated with conforming to Army CIO information technology (IT) systems requirements.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0606003A / <i>CounterIntel and Human Intel el Modernization</i>				Project (Number/Name) F19 / <i>Counterl Intel and Human Intel Modernization</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
F19: <i>Counterl Intel and Human Intel Modernization</i>	-	1.424	6.348	4.574	-	4.574	4.675	4.778	4.883	4.990	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Counterintelligence (CI) and Human Intelligence (HUMINT) Modernization Project supports ongoing development and testing of new critical CI and HUMINT systems, applications, tools, equipment, and capabilities necessary to defeat foreign intelligence, international terrorist, and insider threats while enhancing our HUMINT collection capability, management processes, and responsiveness. The required tools provide Army and DoD leadership, commanders, and warfighters the intelligence necessary for making advantageous operational planning, policies, and timely decisions. Modernization of these systems is a core component of protecting Army technologies and ensuring overmatch on current and future battlefields.

CI Support to Force Protection (CIFP) provides for updating the CI Threat Module, the Army CI Operations Portal (ACOP), and partnering with other Service CI entities on a joint CI analysis system development project. Will support development and testing of software code integrating existing and new algorithms to multiple data sources to record, identify, sort, and prioritize information.

The Castle Keep Portal is the Army's enterprise capability to automate workflow services, SCI program reporting, metrics, analysis, and information sharing to protect classified information within and across the defense elements of the Intelligence Community.

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

	FY 2023	FY 2024	FY 2025
Title: Army's Threat Management Informtion Sharing System	-	2.928	4.574
<p>Description: The Counterintelligence (CI) and Human Intelligence (HUMINT) Modernization Project supports ongoing development and testing of new critical CI and HUMINT systems, applications, tools, equipment, and capabilities necessary to defeat foreign intelligence, international terrorist, and insider threats while enhancing our HUMINT collection capability, management processes, and responsiveness. The required tools provide Army and DoD leadership, commanders, and warfighters the intelligence necessary for making advantageous operational planning, policies, and timely decisions. Modernization of these systems is a core component of protecting Army technologies and ensuring overmatch on current and future battlefields.</p> <p>CI Support to Force Protection (CIFP) provides for updating the CI Threat Module, the Army CI Operations Portal (ACOP), and partnering with other Service CI entities on a joint CI analysis system development project. Will support development and testing of software code integrating existing and new algorithms to multiple data sources to record, identify, sort, and prioritize information.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606003A / <i>CounterIntel and Human Intel Modernization</i>	Project (Number/Name) F19 / <i>CounterIntel and Human Intel Modernization</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>The Castle Keep Portal is the Army's enterprise capability to automate workflow services, SCI program reporting, metrics, analysis, and information sharing to protect classified information within and across the defense elements of the Intelligence Community.</p> <p>FY 2024 Plans: Army's Threat Management Information Sharing System. Will support development and testing of software code integrating existing and new algorithms to analyze multiple data source to record, identify, sort, and prioritize behaviors indicative of espionage, national security compromises, and other foreign and insider threats.</p> <p>FY 2025 Plans: Army's Threat Management Information Sharing System. Will support development and testing of software code integrating existing and new algorithms to analyze multiple data source to record, identify, sort, and prioritize behaviors indicative of espionage, national security compromises, and other foreign and insider threats.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increased funding due to rising costs associated with conforming to Army CIO Information Technology (IT) requirements.</p>				
<p>Title: GEOINT</p> <p>Description: GEOINT Collection Integration provides rapid integration of emerging GEOINT capabilities and analysis techniques on an operational timeline (days/weeks) to provide the maximum advantage to the ground force commander. The Army GEOINT Office manages the world-wide effort to rapidly identify requirements, develop solutions, and deliver algorithm capabilities to answer difficult intelligence problems. The AGO transitioned the effort to focus on near-peer threats and denied-area intelligence operations, which requires a greater outlay than the previous efforts. The project funds software development and testing, and required infrastructure to extract, analyze, and validate new and emerging classified data sources.</p> <p>FY 2024 Plans: Efforts will develop software to leverage new GEOINT sensors in the space layer and deliver capabilities to the Army Intelligence Enterprise. These are non-traditional GEOINT sensors that deliver raw data to the Army.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding due to effort terminating in FY25.</p>		1.424	3.420	-
Accomplishments/Planned Programs Subtotals		1.424	6.348	4.574
C. Other Program Funding Summary (\$ in Millions)				
N/A				

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606003A / CounterIntel and Human Intel el Modernization	Project (Number/Name) F19 / CounterIntel and Human Intel Modernization

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

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0606942A / <i>Assessments and Evaluations Cyber Vulnerabilities</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	5.816	6.025	10.105	-	10.105	6.372	6.441	6.512	6.577	Continuing	Continuing
FL2: <i>Cyber Vulnerabilities Assessments and Evaluations</i>	-	5.816	6.025	10.105	-	10.105	6.372	6.441	6.512	6.577	Continuing	Continuing

A. Mission Description and Budget Item Justification

This funding line reduces the Army's risk to adversarial cyber intrusions or attacks that could compromise critical weapon systems and kill chains.

Cyberspace Operational-Resilience Assessment - Platform (CORA-P) improves survivability across Army modernization efforts and maintains readiness of operational capabilities. CORA-P addresses the requirements of Section 1647 of the FY16 NDAA and Section 1712 of the FY21 NDAA, which directs the Services to identify and mitigate cyberspace vulnerabilities in critical weapon systems. Under CORA-P, the Army prioritizes capabilities most-relevant to JROC-designated and threat-informed capabilities supporting National Defense Strategy priorities. The Army reviews the security posture of these critical components, develops remediation strategies, and facilitates delivery of fixes at mission-relevant speed. CORA-P is helping move the Army from system-oriented compliance to system-of-systems resilience that addresses defensive gaps between individual components; this is necessary to prevent adversaries from denying critical kill chains. CORA-P ensures Army cyberspace remediation investments address areas of highest operational risk.

When applicable, this PE also provides for Red Team enhancement to support Combatant Command mission-level cyber vulnerability assessments.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	5.816	6.025	6.185	-	6.185
Current President's Budget	5.816	6.025	10.105	-	10.105
Total Adjustments	0.000	0.000	3.920	-	3.920
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	3.920	-	3.920

Change Summary Explanation

The funding increase represents the addition of The Army Acquisition Red Team capabilities. The Army Acquisition Red Team provides Threat Counter Artificial Intelligence (TCAI) capability to test emerging and evolving DoD/Army AI and Machine Learning capabilities against relevant threats.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0606942A / <i>Assessments and Evaluations Cyber Vulnerabilities</i>				Project (Number/Name) FL2 / <i>Cyber Vulnerabilities Assessments and Evaluations</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FL2: <i>Cyber Vulnerabilities Assessments and Evaluations</i>	-	5.816	6.025	10.105	-	10.105	6.372	6.441	6.512	6.577	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line reduces the Army's risk to adversarial cyber intrusions or attacks that could compromise critical weapon systems and kill chains.

Cyberspace Operational-Resilience Assessment - Platform (CORA-P) improves survivability across Army modernization efforts and maintains readiness of operational capabilities. CORA-P addresses the requirements of Section 1647 of the FY16 NDAA, which directed the Services to identify and mitigate cyberspace vulnerabilities in critical weapon systems. The Army initially established CORA-P to continue Section 1647 assessments, while expanding to include supply chain risk analysis, electromagnetic spectrum vulnerabilities, persistent cyber red teaming, and crosscutting/architectural vulnerabilities. CORA-P now integrates with and enhances the DoD's Strategic Cybersecurity Program, as enacted in Section 1712 of the FY21 NDAA. Accordingly, CORA-P is shifting from executing new assessments, to developing and delivering vulnerability remediations from ongoing assessments and defensive operations. This includes improving the structure and visibility of vulnerability data to improve portfolio risk management, initiating remediation efforts for high-priority, crosscutting issues, and avoiding future risks by driving improvements earlier in materiel development for modernization programs.

Under CORA-P, the Army prioritizes capabilities most-relevant to JROC-designated and threat-informed capabilities supporting National Defense Strategy priorities. The Army reviews the security posture of these critical components, develops remediation strategies, and facilitates delivery of fixes at mission-relevant speed. CORA-P is helping move the Army from system-oriented compliance to system-of-systems resilience that addresses defensive gaps between individual components; this is necessary to prevent adversaries from denying critical kill chains. CORA-P ensures Army cyberspace remediation investments address areas of highest operational risk. CORA-P also provides the framework by which individual programs can elevate threat-informed remediation requirements to drive cybersecurity investments across portfolios to mission areas of highest operational risk.

When applicable, this PE also provides for Red Team enhancement to support Combatant Command mission-level cyber vulnerability assessments.

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

	FY 2023	FY 2024	FY 2025
Title: Cyberspace Operational Resiliency Assessment - Platform (CORA-P)	5.816	6.025	6.197
Description: CORA-P is the Army's response to Section 1647 of the 2016 National Defense Authorization Act which directed the Department of the Defense (DoD) to evaluate cyber vulnerabilities of major weapon systems. HQ Department of the Army Cyber Directorate will be the oversight governing body overseeing the assessments and NRE mitigations process to cyber vulnerabilities identified in the Vulnerability Assessment Report.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606942A / <i>Assessments and Evaluations Cyber Vulnerabilities</i>	Project (Number/Name) FL2 / <i>Cyber Vulnerabilities Assessments and Evaluations</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> The funding provides the Army the opportunity to complete evaluation of critical Army platforms as a follow-on to Section 1647 of the 2016 National Defense Authorization Act (NDAA). This includes system-of-systems assessments, lab assessments, tabletop exercises, and additional analytical, exercise, and or operational assessments. This funding provides the Army the ability to develop Red Team capacity to carry out COCOM mission level assessments. Cyber hardening efforts will be informed by the Cyber Vulnerability Assessment Report (CVAR) generated through the assessment and prioritization process. Prioritization will be based on mission, impact to readiness, and threat analysis.</p> <p><i>FY 2025 Plans:</i> The funding provides the Army the opportunity to assure its digital transformation through automation to improve efficiency and effectiveness of cyber vulnerability collection, analysis, and reporting to deliver resilient and survivable weapon systems. Improved automation will enable the analysis of products from engineering, Test & Evaluation, and other assessments to proactively identify areas of risk (e.g. compromised software, unsecure configurations, supply chain vulnerabilities, etc). Enhancements will be leveraged to develop specific remediation plans/actions for priority findings from the DoD Security Cooperation Program and other defensive cyberspace operations in order to deliver fixes at mission relevant speeds.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> FY 2024 to FY 2025 funding increase represents minor increase due to economic assumptions.</p>				
<p><i>Title:</i> Red Team</p> <p><i>Description:</i> The Army Acquisition Red Team will provide Threat Counter Artificial Intelligence (TCAI) capability to test emerging and evolving DoD/Army AI and Machine Learning (ML) capabilities against operationally relevant and realistic threats. TCAI is critical to testing Army modernization efforts and evaluation of how it will conduct Multi-Domain Operations. Army Acquisition Red Team provides Persistent Cyber Operations (PCO) at the COCOM mission level, develops adversary techniques, tactics, and procedures (TTPs), conducts broad assessments of Science and Technology (S&T) and acquisition office environments and industrial base assets, as well as support CORA-P function providing PCO, Close Access Assessments, and Adversarial Assessments in support of Section 1647 of the 2016 National Defense Authorization Act.</p> <p><i>FY 2025 Plans:</i> The funding provides the Army the ability to further develop the TCAI capability to test emerging and evolving DoD/Army AI and ML capabilities against operationally relevant and realistic threats critical to testing Army modernization priorities. The Army Acquisition Red Team will also provide PCO at the Combatant Command (COCOM) mission level, develop adversary Tactics Techniques and Procedures (TTPs), conduct broad assessments of S&T and acquisition office environments and industrial base assets. The Army Acquisition Red Team will support CORA-P providing PCO, Close Access Assessments, and Adversarial Assessments. The Army Acquisition Red Team supports multiple goals of the Army Campaign Plan to support delivering Army</p>		-	-	3.908

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0606942A / <i>Assessments and Evaluations Cyber Vulnerabilities</i>	Project (Number/Name) FL2 / <i>Cyber Vulnerabilities Assessments and Evaluations</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
2030 by ensuring S&T and PM environments are censored and defending intellectual property and critical technology information, expanding persistent cyberspace operations on COCOM networks under Director, Operational Test & Evaluation (DOT&E) authorities, and ensuring the organic industrial base can meet OPTEMPO requirements and delivery uncompromised.				
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 funding increase represents the addition of Acquisition Red Team capabilities.				
Accomplishments/Planned Programs Subtotals		5.816	6.025	10.105
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0909999A / <i>Financing for Cancelled Account Adjustments</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	0.135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.135
900: <i>CLOSED ACCT ADJMT-M</i>	-	0.135	-	-	-	-	-	-	-	-	0.000	0.135

A. Mission Description and Budget Item Justification

Financing for Closed Account Adjustments

B. Program Change Summary (\$ in Millions)

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.135	0.000	0.000	-	0.000
Total Adjustments	0.135	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.135	-			
• SBIR/STTR Transfer	-	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0909999A / <i>Financing for Cancelled Account Adjustments</i>	Project (Number/Name) 900 / <i>CLOSED ACCT ADJMT-M</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
900: <i>CLOSED ACCT ADJMT-M</i>	-	0.135	-	-	-	-	-	-	-	-	0.000	0.135
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program accomplishes closed account adjustments.

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

	FY 2023	FY 2024	FY 2025
Title: Closed Account Adjustments	0.135	-	-
Accomplishments/Planned Programs Subtotals	0.135	-	-

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

N/A

Remarks

D. Acquisition Strategy

N/A