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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 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</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	-	80.115	64.076	52.586	-	52.586	62.452	66.605	71.304	71.940	Continuing	Continuing
CF3: <i>Integrated Soldier Systems (SL CFT)</i>	-	3.842	4.407	4.349	-	4.349	4.440	4.486	4.536	4.581	0.000	30.641
ES9: <i>Advanced Tactical Parachute System</i>	-	2.918	2.776	3.646	-	3.646	3.977	4.020	4.065	4.106	0.000	25.508
EW4: <i>Crew Served Weapons Engineering Development</i>	-	7.277	4.300	3.685	-	3.685	3.981	4.022	4.067	4.108	0.000	31.440
FF2: <i>Small Arms Fire Control</i>	-	7.880	10.050	3.350	-	3.350	4.858	4.910	4.965	5.015	0.000	41.028
FM4: <i>Next Generation Squad Weapons</i>	-	17.156	16.141	10.805	-	10.805	10.818	10.934	11.056	11.168	0.000	88.078
GM1: <i>Future Medium Machine Gun*</i>	-	-	-	-	-	-	4.008	8.016	12.023	12.023	0.000	36.070
S58: <i>Soldier Enhancement Program</i>	-	10.077	4.897	4.977	-	4.977	4.984	4.988	5.044	5.095	Continuing	Continuing
S60: <i>Clothing & Equipment</i>	-	6.083	3.427	6.218	-	6.218	8.675	8.768	8.866	8.955	0.000	50.992
S61: <i>Acis Engineering Development</i>	-	10.553	3.788	3.025	-	3.025	3.857	3.476	3.552	3.627	Continuing	Continuing
S63: <i>Individual Weapons Engineering Development</i>	-	3.812	3.549	3.430	-	3.430	3.704	3.742	3.784	3.822	Continuing	Continuing
S70: <i>Personnel Recovery Support System (PRSS)</i>	-	1.554	2.591	0.591	-	0.591	0.637	0.644	0.651	0.658	Continuing	Continuing
VS5: <i>Soldier Protective Equipment</i>	-	8.963	8.150	8.510	-	8.510	8.513	8.599	8.695	8.782	0.000	60.212

*This project's R-2a exhibit has been suppressed due to funding not beginning until after FY 2025

A. Mission Description and Budget Item Justification

A portion of this funding line directly aligns to the Soldier Lethality Army Modernization Priority. This Program Element (PE) Engineering and Manufacturing Development (EMD) manages the Soldier as a system, with the goal of increasing Soldiers' combat effectiveness, increasing survivability, and improving the Soldiers' quality of life. It develops and tests prototypes of weapons, clothing, equipment, and other items useful to support the Soldier.

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<p>Project CF3 (Integrated Soldier Systems (SL CFT)) test, maintain and evolve a Soldier/squad equipment configuration baseline, the Architecture Assessment Tool and conduct configuration management at the system level. Physically integrate components, improve compatibility and interoperability across programs. Establish and maintain tools that provide Systems Engineering, Configuration Management and Evaluation in a virtual and physical environment. Conduct evaluations and integrate mission-specific equipment into the Adaptive Squad Architecture (ASA) with continued emphasis on development of ICDs, evaluations, and improved fidelity.</p> <p>Project ES9 (Advanced Tactical Parachute System) improves personnel parachute systems and associated equipment for low and high altitude operations to include canopy improvements based on integration of new technology with the goal of enhancing the insertion capability and safety of the airborne Soldier and increasing the performance, reliability, and durability of personnel airdrop equipment.</p> <p>Project EW4 (Crew Served Weapons Engineering Development) supports efforts to transition components or prototypes from Small Arms Improvement, Project S54, Program Element 0603827A, (Budget Activity 4) and other domestic and foreign sources of small arms weapons to demonstrate, test and evaluate capability near or at planned operational requirements.</p> <p>Project FF2 (Small Arms Fire Control) supports the development of an advanced fire control for the Next Generation Automatic Rifle (NGSW-AR) and Rifle (NGSW-R). The Next Generation Fire Control will increase the probability of hit and decrease the time to engage through a variable powered direct view optic with integrated range finder, ballistic calculator, and digital display capable of providing an adjusted aim point.</p> <p>Project FI2 (Lightweight 30mm Cannon) provides increased lethality modification to Product Directorate Counter-Rocket Artillery Mortars (PD C-RAM) under a JUONS. An upgraded medium caliber weapon will be developed, tested and evaluated for integration into a modified remote weapon station under an Urgent Materiel Release (UMR).</p> <p>Project FL8 (84mm MAAWS Ammunition) supports test, evaluation and quality up to seven types of 84 millimeter (mm) munitions for the U.S. Army use with the M3/M3A1 Multi-Role Anti-Personnel Weapon Systems (MAAWS).</p> <p>Project FM4 (Next Generation Squad Weapons) supports the rapid prototyping and development of a NGSW-AR, NGSW-R and common cartridge to provide capability improvements in accuracy, range and lethality, in order to maintain overmatch and meet future warfighter requirements.</p> <p>Project S58 (Soldier Enhancement Program) supports accelerated integration, modernization, and enhancement efforts of lighter, more lethal weapons, and improved Soldier items including lighter, more comfortable load-bearing equipment, field gear, survivability items, communications equipment, and navigational aids.</p> <p>Project S60 (Clothing & Equipment) supports pre-production development of state-of-the-art individual clothing and equipment to improve the survivability, mobility and sustainment affecting the quality of life of the individual Soldier.</p>		

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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 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>
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Project S61 (Acis Engineering Development) provides System Development programs with improved aircrew safety, survivability, and human performance that amplify the warfighting effectiveness and facilitates full-spectrum dominance of the Army aircraft including the AH-64 Apache/Longbow, CH-47 Chinook, UH/HH-60 Blackhawk, Light Utility Helicopter, and Future Vertical Lift (FVL) platforms.

Project S63 (Individual Weapons Engineering Development) demonstrates engineering development models or integrated commercial items designed to enhance lethality, target acquisition, fire control, training effectiveness, and reliability for small arms weapon systems and ammunition. Programs include Improved Weapons Coatings, Personal Defense Weapon, 30 Round 5.56mm Magazine, Modular Handgun System (MHS), Precision Sniper Rifle (PSR), Sub Compact, and Interim Combat Service Rifle (ICR).

Project S70 (Personnel Recovery Support System (PRSS)) provides system research, development and testing of the Personal Recovery Support System/Personnel Recovery Support Equipment supporting operations to report and locate isolated, missing, detained or captured Soldiers.

Project VS5 (Soldier Protective Equipment) supports engineering and manufacturing development of Individual Soldier Ballistic Protection equipment. It will leverage advancements in technology to continue incremental improvements to body armor (to include improved outer tactical vests, plate carriers, and helmets) and other personal protective equipment.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	83.329	64.076	52.728	-	52.728
Current President's Budget	80.115	64.076	52.586	-	52.586
Total Adjustments	-3.214	0.000	-0.142	-	-0.142
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.900	-			
• SBIR/STTR Transfer	-2.314	-			
• Adjustments to Budget Years	-	-	-0.142	-	-0.142

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

Project: EW4: *Crew Served Weapons Engineering Development*

Congressional Add: *Congressional Add: Cannon Life Extension Program*

Congressional Add: *Congressional Add: CROWS - Acoustic Hailing Device*

Congressional Add Subtotals for Project: EW4

	FY 2023	FY 2024
	1.500	-
	1.000	-
	2.500	-

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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 5: System Development & Demonstration (SDD)*

R-1 Program Element (Number/Name)
 PE 0604601A / *Infantry Support Weapons*

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

Project: FM4: *Next Generation Squad Weapons*

Congressional Add: *NGSW Commercial Magazine Testing*

Congressional Add Subtotals for Project: FM4

Project: S58: *Soldier Enhancement Program*

Congressional Add: *Program increase - soldier enhancement program*

Congressional Add Subtotals for Project: S58

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	5.000	-
	5.000	-
	5.000	-
	5.000	-
	12.500	-

Change Summary Explanation

Funding decreased due to completion of initial improvement of prototype development, and the transitioning of program management costs to production. Decrease also reflects a minor reduction in mission specific equipment integrated into Adaptive Squad Architecture (ASA), and Architecture Assessment Tool (AAT).

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) CF3 / <i>Integrated Soldier Systems (SL CFT)</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
CF3: <i>Integrated Soldier Systems (SL CFT)</i>	-	3.842	4.407	4.349	-	4.349	4.440	4.486	4.536	4.581	0.000	30.641
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Adaptive Squad Architecture (ASA) and Soldier Integration Facility (SIF) are Program Executive Office-Soldier (PEO-S) led efforts which will allow optimization of "Soldiers as Integrated Weapons Systems" and the "Squad(s) as an Integrated Platform(s)". The ASA focus will be the system-of systems full virtual integration of all mission-specific equipment as well as full configuration management of the Configuration Database (CD) and Architecture Assessment Tool (AAT). The SIF focus is both team and squad level constructive and live experimentation to support ongoing PEO-S and Soldier Lethality Cross Functional Team optimization priorities. The ASA/SIF will develop a metric-based approach that will include virtual, constructive and live evaluations and tools across the Department of Defense (DoD), academia and industry which will be used for senior leaders to make deliberate decisions based on the analysis of Soldier/Squad performance. Funding for this project aligns with the Army's priorities in support of the National Defense Strategy and is a Soldier Lethality Cross Functional Team priority.

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

	FY 2023	FY 2024	FY 2025
Title: Integrated Soldier Systems	0.734	4.407	0.152
Description: Test, maintain, and evolve a Soldier/squad equipment configuration baseline, the Architecture Assessment Tool (AAT) and conduct configuration management at the system level. Physically integrate components, improve compatibility and interoperability across programs. Establish and maintain tools that provide Systems Engineering, Configuration Management and Evaluation in a virtual and physical environment. Conduct evaluations and integrate mission-specific equipment into the Adaptive Squad Architecture (ASA) with continued emphasis on development of ICDs, evaluations, and improved fidelity.			
FY 2024 Plans: Continue to develop and integrate mission-specific equipment with other combat platforms into initial version of ASA.			
FY 2025 Plans: Continue to develop and integrate mission-specific equipment with other combat platforms into initial version of ASA and build to IBCT level Architecture.			
FY 2024 to FY 2025 Increase/Decrease Statement: The FY 2025 decrease reflects reduction in mission specific equipment integrated into ASA and AAT.			
Title: ASA/SIF Evaluations	3.108	-	4.197
Description: ASA provides a digital engineering foundation for Soldier Centered Design in a virtual (Army Cloud) environment to provide a common operating picture across the CCIE. The ASA requirement is based on the 2018 Soldier Lethality Initial Capabilities Document which promotes "capturing models in the ASA that identify specific connection points for development,			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) CF3 / <i>Integrated Soldier Systems (SL CFT)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
integration and commonality of new systems that exchange data to provide information to warfighters that augment the speed of decisions with improved accuracy and reliability". ASA provides a starting point for new integration efforts to explore integration gaps and opportunities prior to and as part of the prototyping phase, before a Soldier Touch Point, and throughout the acquisition life cycle.			
<i>FY 2025 Plans:</i> Execute integration, innovation and synchronization across PEO Soldier and other PEOs to provide Small Units with decisive overmatch resulting from a synchronization of effects in multiple domains.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase to support integration, innovation and synchronization of efforts to provide Small Units effects in multiple domains.			
Accomplishments/Planned Programs Subtotals	3.842	4.407	4.349

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• CF3: <i>Integrated Soldier Systems (SL CFT)</i>	3.842	4.407	4.349	-	4.349	4.440	4.486	4.536	4.581	0.000	30.641

Remarks

D. Acquisition Strategy

PEO Soldier will utilize available Adaptive Squad Architecture (ASA) and tools plus exercise the SIF with Team level and Squad level experimentation to assess system-of-systems capabilities for evaluation and integration, using current Systems Engineering and Technical Assistance (SETA) contracts, Federally Funded Research and Development Center personnel (FFRDCs) as necessary, plus tools/deliverables built under project CF2. The ASA/SIF will develop a metric-based approach that will include virtual, constructive and live evaluations and tools across the Department of Defense (DoD), academia and industry which will be used for senior leaders to make deliberate decisions based on the analysis of Soldier/Squad performance. The PEO will utilize project CF3 to leverage any data, architectural products or designs from the IVAS program and other PEO-S and Soldier Lethality Cross Functional Team priorities.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>		Project (Number/Name) CF3 / <i>Integrated Soldier Systems (SL CFT)</i>	

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ASA Integration																												
Soldier Integration Facility Evaluations																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) CF3 / <i>Integrated Soldier Systems (SL CFT)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASA Integration	2	2020	4	2029
Soldier Integration Facility Evaluations	2	2020	4	2029

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

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) ES9 / <i>Advanced Tactical Parachute System</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
ES9: <i>Advanced Tactical Parachute System</i>	-	2.918	2.776	3.646	-	3.646	3.977	4.020	4.065	4.106	0.000	25.508
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funding in this project supports the Army's Cross Functional Teams (CFT) initiatives. Advanced Tactical Parachute System funding improves Low Altitude and High Altitude personnel parachutes and associated equipment to include test and evaluation of items transitioning from Advanced Component Development and prototype (6.4) efforts, with the goal of enhancing the insertion capability and safety of the airborne Soldier and increasing the performance, reliability, and durability of personnel airdrop equipment. Funding also supports improvements and testing/evaluation of personnel parachute systems including integration and interface with the Soldier system. This project will continue to support cross-service initiatives to improve commonality.

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

	FY 2023	FY 2024	FY 2025
Title: Advanced Tactical Parachute System	2.918	2.776	3.646
Description: Advanced Tactical Parachute System funds improvements and testing/evaluation of personnel parachute systems. Project supports improved Low Altitude and High Altitude personnel parachute systems and associated equipment to include test and evaluation of items transitioning from Advance Component Development and prototype (6.4) efforts, with the goal of enhancing the insertion capability and safety of the airborne Soldier and increasing the performance, reliability, and durability of personnel airdrop equipment.			
FY 2024 Plans: Continue Developmental Testing and Operational Testing (DT/OT) for Parachutist Emergency Release System (PERS). Continue with test and evaluation of T-11 modification to address cross corner inversion malfunctions. Continue enhancement of high and low altitude insertion capabilities and continue supporting modernization initiatives to parachute systems and ancillary equipment.			
FY 2025 Plans: Begin next phase of testing and evaluation of the Static Line Automatic Activation Device (SLAAD). Continue with test and evaluation of T-11 modification to address cross corner inversion malfunctions. Continue Developmental Testing (DT) and Operational Testing (OT) of Parachutist Emergency Release System (PERS). Continue enhancement of high and low altitude insertion capabilities and continue supporting modernization initiatives to parachute systems and ancillary equipment.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increased funding supports acquiring additional test assets and expanded scope of testing for the Static Line Reserve Parachute Automatic Activation Device (SLRPAAD) and the Parachutist Emergency Release System (PERS).			
Accomplishments/Planned Programs Subtotals	2.918	2.776	3.646

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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 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) ES9 / <i>Advanced Tactical Parachute System</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• MA7801: <i>Advanced Tactical Parachute System</i>	42.444	39.279	35.216	-	35.216	32.439	32.458	32.487	32.811	0.000	247.134
• ET8: <i>Personnel Airdrop System Development</i>	1.785	2.208	0.911	-	0.911	2.258	2.282	2.308	2.333	Continuing	Continuing

Remarks

D. Acquisition Strategy

Acquisition strategies for these programs vary in methods, and range from: 1) Material Change Proposals that result in engineering changes to existing systems to; 2) Traditional development programs that include an Engineering and Manufacturing Development phase ranging in duration from 12 to 48 months, depending on the level of complexity and testing required.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Dev Contracts	C/FFP	Various : Various	11.396	0.600		0.500		0.950		-		0.950	6.335	19.781	Continuing
Dev Sys Engineering Spt	MIPR	Various : Various	1.932	0.724		0.400		0.450		-		0.450	1.190	4.696	Continuing
Subtotal			13.328	1.324		0.900		1.400		-		1.400	7.525	24.477	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Office Support Costs	MIPR	DEVCOM-SC : Natick, MA	3.148	0.627		0.350		0.350		-		0.350	0.491	4.966	Continuing
Subtotal			3.148	0.627		0.350		0.350		-		0.350	0.491	4.966	N/A

Remarks
Increase in engineering support to address system performance concerns.

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
DT/OT	MIPR	Various : Various	8.887	0.967		1.526		1.896		-		1.896	4.913	18.189	Continuing
Subtotal			8.887	0.967		1.526		1.896		-		1.896	4.913	18.189	N/A

Remarks
DT/OT decreased due to test schedule delays caused by aircraft availability and system performance not meeting KPPs.

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		25.363	2.918	2.776	3.646	-	3.646	12.929	47.632	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) ES9 / <i>Advanced Tactical Parachute System</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Enhanced Electronic Auto Activation Device (EEAAD) Dev	■				■																							
EEAAD Milestone C	▲ 1				■																							
Airborne Insertion Enhancements	■																											
PERS Development	■																											
PERS Milestone C	■				■								▲ 2															
Static Line Automatic Activation Device (SLAAD) Development	■				■				■				■															
Static Line Parachute System Enhancements	■				■												■											
T-11 Cross Corner Inversion Modification	■																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) ES9 / <i>Advanced Tactical Parachute System</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Enhanced Electronic Auto Activation Device (EEAAD) Dev	1	2019	1	2023
EEAAD Milestone C	2	2023	2	2023
Airborne Insertion Enhancements	1	2019	4	2029
PERS Development	4	2021	2	2026
PERS Milestone C	3	2026	3	2026
Static Line Automatic Activation Device (SLAAD) Development	1	2025	4	2027
Static Line Parachute System Enhancements	1	2028	4	2029
T-11 Cross Corner Inversion Modification	1	2023	4	2027

Note

Note: Airborne Insertion Enhancements includes the following programs: High Altitude Combo Drops, GPS Denied Navaid, Glide Modulation, T-11 Main Improvements, Towed Jumper Detection and Above 25K Operations.

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) EW4 / <i>Crew Served Weapons Engineering 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
EW4: <i>Crew Served Weapons Engineering Development</i>	-	7.277	4.300	3.685	-	3.685	3.981	4.022	4.067	4.108	0.000	31.440
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Crew Served Weapons Engineering and Manufacturing Development (EMD) program provides funds to transition components or prototypes from Budget Activity 4 (BA 4) Program Element (PE) 0603827A Soldier Systems - Advanced Development Project S54 Small Arms Improvement and other domestic and foreign sources of small arms weapon systems to demonstrate, test and evaluate capability near or at planned operational requirements. Crew Served Weapons systems include small and medium caliber weapons ranging up to 40 millimeter and remote weapon stations. Current and future efforts focus on system improvements designed to enhance lethality, target acquisition, fire control, usability, training effectiveness and reliability of weapons to include ammunition when developing and/or evaluating standard, non-standard weapons and remote weapon station enhancements. Focus areas include system development, integration (to include human-systems), demonstration, test and evaluate components, prototypes and operational system prototypes of small arms weapon systems and/or enhancements. Benefits include continuous improvements to small arms weapon systems, fire control equipment, optics, gun barrels, ancillary equipment, training devices, component mounts, weapon mounts, and weapon/ammunition interface of current small arms fleet or new weapon systems.

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

	FY 2023	FY 2024	FY 2025
Title: Design and Development	3.723	3.165	2.550
Description: Design and development of Crew Served Weapons			
FY 2024 Plans: Will conduct weapons characterization and development for light and medium machine gun technologies and design upgrades. Will validate specification requirements, improve system performance, and increase barrel longevity with the M855A1 5.56mm ammunition.			
Development activities will include integration of the planned XM101 40mm High Explosive Dual Purpose - Air Burst (HEDP-AB) programmer on the remote weapon station. Will also include hardware and software upgrades to the remote weapon station to enable future capabilities, such as kinetic engagement of unmanned aerial systems, improved target identification range, integration of emerging sensors and weapons, and networked communication between multiple systems and/or platforms.			
Adaptive Lubricious Coatings will develop manufacturing technology to support production of super hydrophobic and other coatings in support of preserving barrel, operating group and bolt life of crew served weapons while improving weapon readiness.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) EW4 / <i>Crew Served Weapons Engineering Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Will perform test and evaluation on coated M240 machine guns to quantify performance gains, as well as mature application of coatings into weapon Original Equipment Manufacturer manufacturing processes.</p> <p>New Weapons and Enabling Technology Evaluations and Assessments will continue to explore new technologies and perform initial evaluations and assessments required to facilitate rapid acquisition of increased capabilities where applicable.</p> <p>Create a 6.8mm M240 Barrel Assembly compatible with XM1186 ammunition.</p> <p>FY 2025 Plans: Will conduct weapons characterization and development for light, medium, and heavy machine gun technologies and design upgrades. Will validate specification requirements, improve system performance, and increase barrel longevity.</p> <p>Development activities will include integration of the planned XM101 40mm High Explosive Dual Purpose - Air Burst (HEDP-AB) programmer on the remote weapon station. Will also include hardware and software upgrades to the remote weapon station to enable future capabilities, such as kinetic engagement of unmanned aerial systems, improved target identification range, integration of emerging sensors and weapons, and networked communication between multiple systems and/or platforms.</p> <p>Enhanced Weapon Coatings, previously called Adaptive Lubricious Coatings will develop manufacturing technology to support production of super hydrophobic and other coatings in support of preserving barrel, operating group and bolt life of crew served weapons while improving weapon readiness. Will perform test and evaluation on coated M240 machine guns to quantify performance gains, as well as mature application of coatings into weapon Original Equipment Manufacturer manufacturing processes.</p> <p>New Weapons and Enabling Technology Evaluations and Assessments will continue to explore new technologies and perform initial evaluations and assessments required to facilitate rapid acquisition of increased capabilities where applicable.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease accounts for a slight reduction of Design and Development activities in FY25.</p>				
<p>Title: Test and Evaluation</p> <p>Description: Test and evaluation of Crew Served Weapons</p> <p>FY 2024 Plans:</p>		1.054	1.135	1.135

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) EW4 / <i>Crew Served Weapons Engineering Development</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Will conduct testing to support validation of the M249 SAW upgrades and barrel life specification requirements. Will also continue to test and evaluate technologies and improvements, to include the lightweight M2A1, remote weapon station enhancements, and other required testing.			
Evaluate suitability of the XM250 for the current M240-series medium machine gun role.			
<i>FY 2025 Plans:</i> Will continue to test and evaluate technologies and improvements, to include required testing for medium machine gun and remote weapon station enhancements. Continue testing to evaluate suitability of the XM250 for the current M240-series medium machine gun role. Conduct testing of 6.8mm M240 barrel assembly, as well as evaluate other 6.8mm M240 solutions available in the marketplace.			
Accomplishments/Planned Programs Subtotals	4.777	4.300	3.685

	FY 2023	FY 2024
<i>Congressional Add:</i> Congressional Add: Cannon Life Extension Program	1.500	-
<i>FY 2023 Accomplishments:</i> Continued to advance and optimize the explosive bonding process of tantalum tungsten alloy liners to create improved, longer life small and medium caliber barrels. Continued to investigate alternative rifling methods (i.e. pressure form, roller form, waterjet) for tantalum lined barrels and develop manufacturing technologies that enable the affordable production and sustainment of future weapon systems. Developed and manufactured fully lined .50 Caliber MG barrels utilizing explosive bonding process for production qualification testing.		
<i>Congressional Add:</i> Congressional Add: CROWS - Acoustic Hailing Device	1.000	-
<i>FY 2023 Accomplishments:</i> Modified the Genasys LRAD 450XL Acoustic Hailing Device (AHD) for compatibility with the Common Remotely Operated Weapon Station (CROWS) Technology Refresh (TR) platform. Integrate the AHD onto the CROWS TR platform for a technology demonstration and follow-on testing. Develop technical data package.		
Congressional Adds Subtotals	2.500	-

C. Other Program Funding Summary (\$ in Millions)	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
• S54: <i>Small Arms Improvement</i>	7.950	9.094	7.971	-	7.971	8.974	9.069	9.169	9.261	0.000	61.488

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) EW4 / <i>Crew Served Weapons Engineering Development</i>

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

Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
			Base	OCO	Total					Complete	Total Cost
• FM4: <i>Next Generation Squad Weapons</i>	17.156	16.141	10.805	-	10.805	10.818	10.934	11.056	11.168	0.000	88.078
• GZ1500: <i>Sniper Rifles Modifications</i>	0.143	-	0.000	-	0.000	0.019	0.019	0.019	0.019	Continuing	Continuing
• GB4000: <i>M2 50 Cal Machine Gun MODS</i>	7.420	-	0.000	-	0.000	-	-	-	-	0.000	7.420
• GL3200: <i>Items Less Than \$5.0m (WOCV-WTCV)</i>	5.271	1.148	1.031	-	1.031	2.185	2.189	2.191	2.214	Continuing	Continuing
• G13000: <i>M240 Medium Machine Gun (7.62mm)</i>	12.801	0.425	0.003	-	0.003	0.002	0.003	-	-	Continuing	Continuing
• G01506: <i>Precision Sniper Rifle</i>	6.436	5.248	5.910	-	5.910	4.839	1.919	5.981	6.041	Continuing	Continuing
• G13101: <i>MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM</i>	26.627	-	0.000	-	0.000	-	-	-	-	0.000	26.627

Remarks

In support of Small Arms Requirements, components or prototypes developed in BA 4 PE 0603827A Soldier Systems - Advanced Development Project S54 Small Arms Improvement transition to BA 5 PE 0604601A Infantry Support Weapons Project EW4 Crew Served Weapons Engineering Development to conduct engineering and manufacturing development. Once the component, prototype or operational prototype achieves Milestone C and type classification the item transitions to small arms weapon systems production or modification programs.

D. Acquisition Strategy

Primary strategy is to mature and finalize design efforts, award Research, Development, Test and Evaluation (RDT&E), contracts, and/or Department of Defense Ordnance Technology Consortium (DOTC) and other OTA type hardware contracts. Test and evaluate systems that result in type classification, material release, and follow-on production contract awards.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				EW4 / Crew Served Weapons Engineering Development							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	Allot	PM Soldier Weapons, : Picatinny Arsenal	2.166	0.205	Mar 2023	0.205	Nov 2023	0.205	Mar 2025	-		0.205	Continuing	Continuing	Continuing
Travel	MIPR	PM Soldier Weapons, : Picatinny Arsenal	0.387	0.020	Mar 2023	0.020	Mar 2023	0.020	Mar 2025	-		0.020	Continuing	Continuing	Continuing
Subtotal			2.553	0.225		0.225		0.225		-		0.225	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Fabrication	Various	Various : Multiple Contractors	11.712	0.207	Mar 2023	0.300	Mar 2023	0.300	Mar 2025	-		0.300	Continuing	Continuing	Continuing
Hardware Development	MIPR	Army Research Development Engineers Centers : Multiple	26.820	4.814	Mar 2023	2.230	Mar 2023	1.608	Mar 2025	-		1.608	Continuing	Continuing	Continuing
Subtotal			38.532	5.021		2.530		1.908		-		1.908	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering	MIPR	Army Research Development Engineering Centers : Multiple	11.841	0.772	Mar 2023	0.259	Mar 2023	0.259	Mar 2025	-		0.259	Continuing	Continuing	Continuing
Logistics	MIPR	Tank & Automotive Command (TACOM), : Warren	0.780	0.080	Mar 2023	0.065	Mar 2023	0.065	Mar 2025	-		0.065	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				EW4 / Crew Served Weapons Engineering Development							
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Human Research and Engineering	MIPR	Army Research Laboratory, : Aberdeen Proving Ground	0.923	0.125	Mar 2023	0.100	Mar 2023	0.100	Mar 2025	-		0.100	Continuing	Continuing	Continuing
Subtotal			13.544	0.977		0.424		0.424		-		0.424	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Testing	MIPR	Army Developmental Test Command, : Aberdeen Proving Ground	7.623	1.054	Mar 2023	0.607	Mar 2023	0.607	Mar 2025	-		0.607	Continuing	Continuing	Continuing
Operational Testing	MIPR	Army Test and Evaluation Command, : Aberdeen Proving Ground	4.115	-		0.407	Mar 2023	0.407	Mar 2025	-		0.407	Continuing	Continuing	Continuing
Validation Testing	MIPR	Army Test and Evaluation Centers, : Multiple	0.858	-		0.107	Mar 2023	0.114	Mar 2025	-		0.114	Continuing	Continuing	Continuing
Subtotal			12.596	1.054		1.121		1.128		-		1.128	Continuing	Continuing	N/A
Project Cost Totals			67.225	7.277		4.300		3.685		-		3.685	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) EW4 / <i>Crew Served Weapons Engineering Development</i>

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DESIGN AND DEVELOPMENT	[Redacted]																											
Mounted Machinegun Optic (MMO)	[Redacted]																											
Design Upgrade for light, medium and heavy MGs	[Redacted]																											
Enhancements for Remote Weapon Station	[Redacted]																											
Weapon Enhancements for Improved Ammunition	[Redacted]																											
New Weapons and Enabling Technology Evaluations and As	[Redacted]																											
TEST AND EVALUATION	[Redacted]																											
Test and Evaluation of new technology	[Redacted]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) EW4 / <i>Crew Served Weapons Engineering Development</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DESIGN AND DEVELOPMENT	1	2020	4	2029
Mounted Machinegun Optic (MMO)	1	2020	4	2025
Design Upgrade for light, medium and heavy MGs	1	2024	4	2029
Enhancements for Remote Weapon Station	1	2023	4	2029
Weapon Enhancements for Improved Ammunition	1	2025	4	2029
New Weapons and Enabling Technology Evaluations and Assessments	1	2023	4	2029
TEST AND EVALUATION	1	2020	4	2029
Test and Evaluation of new technology	1	2021	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) FF2 / <i>Small Arms Fire Control</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
FF2: <i>Small Arms Fire Control</i>	-	7.880	10.050	3.350	-	3.350	4.858	4.910	4.965	5.015	0.000	41.028
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The M157 Next Generation Squad Weapon - Fire Control (NGSW-FC) is an advanced fire control device that supports the Next Generation Squad Weapons. NGSW-FC increases the probability of hit and decreases the time to engage through a variable powered direct view optic with integrated range finder, ballistic calculator, and digital display capable of providing an adjusted aim point. The M157 NGSW-FC will utilize open architecture along with modular interfaces that will deliver the initial increased core capability followed by increasing increments of capability/enhancements over time as technology matures and evolves.

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

	FY 2023	FY 2024	FY 2025
Title: Design, Develop and Fabricate	5.281	6.790	0.950
Description: Includes contract awards for improvements of all Fire Control configurations, enhancements, and hand held devices.			
FY 2024 Plans: Continue to conduct development and improvement efforts with the selected NGSW Fire Control. Efforts with Vortex Optics will include: prototype development on target tracking/recognition, target data transfer, integrated advanced multispectral camera-based capabilities; increased Rapid Target Acquisition capability through networked integration with IVAS, ENGV-B, and FWS-I; aim error reduction technologies progressing toward Generation 4 Fire Control, including advanced stabilization and trigger interrupt solutions; incorporation of Gradient Index (GRIN) lens technology to reduce weight, incorporation of specialized surface treatment to increase performance in cold temperatures and reduce overall system signature; and continued optimization of system size, weight, and power, to reduce soldier load.			
FY 2025 Plans: Finalize and complete initial improvement prototype development for modular thermal sensor capability, increased Rapid Target Acquisition capability through networked integration with IVAS and ENVG-B, and advanced surface treatment signature reduction coatings. Continue to conduct development and improvement efforts with the selected NGSW Fire Control. Efforts with Vortex Optics will include prototype development on target tracking/recognition, target data transfer, aim error reduction technologies progressing toward Generation 4 Fire Control, including advanced stabilization and trigger interrupt solutions; incorporation of Gradient Index (GRIN) lens technology to reduce weight; and continued optimization of system size, weight, and power, to reduce soldier load.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases due to final stage and completion of initial improvement of prototype development in FY25.			
Title: Engineering Support	1.150	1.600	1.000

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>		Project (Number/Name) FF2 / <i>Small Arms Fire Control</i>
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Description: Government engineering support, providing oversight of design development and contractor performance.</p> <p>FY 2024 Plans: Will continue to provide government engineering support at laboratories and engineering centers; providing design, limited testing and oversight of development and contractor performance.</p> <p>FY 2025 Plans: Will continue to provide government engineering support at laboratories and engineering centers; providing design, limited testing and oversight of development and contractor performance, provide engineering support at program operational test events including adversarial assessment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases due to final stage and completion of initial improvement of prototype development in FY25.</p>				
<p>Title: Test and Evaluation</p> <p>Description: Government testing and evaluation of prototypes, articles, and improvements. Includes Soldier Touch Point evaluations.</p> <p>FY 2024 Plans: Will continue Operational Testing to test and evaluate proposed improvements, integration, cyber, natural environments, and capability upgrades resulting from iterative prototyping. Prototypes will undergo technical testing and soldier touch point user evaluations.</p> <p>FY 2025 Plans: Will continue Operational Testing of the M157 to evaluate integration, cyber security, operational effectiveness in natural environments. Product improvement prototypes will undergo technical testing and Soldier Touch Point user evaluations.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Slight increase in funding due to additional test costs in FY25.</p>		1.178	1.310	1.317
<p>Title: Program Management</p> <p>Description: Program management office non-labor activities, to include travel and other indirect costs.</p> <p>FY 2024 Plans: Will continue to provide for administrative costs incurred by the Program Management office, to include travel, contractor service support, and other requirements to support the program.</p> <p>FY 2025 Plans:</p>		0.271	0.350	0.083

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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 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FF2 / <i>Small Arms Fire Control</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Will continue to provide for administrative costs incurred by the Program Management office, to include travel, contractor service support, and other requirements to support the program.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding decreased due to transition of the bulk of program management costs to production.			
Accomplishments/Planned Programs Subtotals	7.880	10.050	3.350

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• S54: <i>Small Arms Improvement</i>	7.950	9.094	7.971	-	7.971	8.974	9.069	9.169	9.261	0.000	61.488
• G14513: <i>Next Generation Squad Weapon - Fire Control</i>	111.387	186.759	252.712	-	252.712	121.207	121.405	156.877	158.437	Continuing	Continuing

Remarks

D. Acquisition Strategy
The NGSW-FC program is a Middle Tier Acquisition (MTA) program utilizing Rapid Prototyping authority under Section 804 of the FY 2016 National Defense Authorization Act (NDAA). A full and open competition selected two vendors for fixed amount Other Transaction Authority (OTA) awards to mature and finalize system designs and conduct test and evaluation. Following successful completion of the initial prototyping effort and approval of MTA - Rapid Fielding authority, the Government awarded a follow-on production Other Transaction Agreement (OTA) for the M157 NGSW-FC without further competition. RDT&E efforts will continue to develop new capabilities and transition them into production.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)					
2040 / 5					PE 0604601A / Infantry Support Weapons					FF2 / Small Arms Fire Control					
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Next Generation Squad Weapons- Fire Control OTA	C/FFP	Vortex Optics : Barneveld WI 53507-9412	3.189	5.281	Feb 2023	6.790	Feb 2024	0.953	Jan 2025	-		0.953	Continuing	Continuing	-
Subtotal			3.189	5.281		6.790		0.953		-		0.953	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Support	MIPR	DEVCOM Armaments Center : Picatinny Arsenal, NJ	7.272	1.150	Nov 2022	1.600	Nov 2023	1.000	Nov 2024	-		1.000	Continuing	Continuing	-
Program Management	Allot	Project Manager Soldier Lethality (PMSL) : Picatinny Arsenal, NJ	0.955	0.271	Nov 2022	0.350	Nov 2023	0.080	Nov 2024	-		0.080	Continuing	Continuing	-
Subtotal			8.227	1.421		1.950		1.080		-		1.080	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	MIPR	Aberdeen Testing Center : Aberdeen Proving Ground, MD	6.573	1.100	Mar 2023	0.786		1.237	Nov 2024	-		1.237	Continuing	Continuing	-
Test and Evaluation	MIPR	DEVCOM Data Analysis Center (DAC) : Aberdeen Proving Ground, MD	0.246	0.078	Apr 2023	0.524	Jan 2024	0.080	Jan 2025	-		0.080	0.000	0.928	-
Subtotal			6.819	1.178		1.310		1.317		-		1.317	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FF2 / <i>Small Arms Fire Control</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Iterative Prototyping - Fire Control Enhancements																												
Contractor Design and Prototype Fabrication																												
Limited User Testing (LUT)																												
Task Order - Improvements FY23	▲ 1																											
Task Order - Improvements FY24					▲ 2																							
Task Order - Improvements FY25									▲ 3																			
Task Order - Improvements FY26													▲ 4															
Task Order - Improvements FY27																	▲ 5											
Test and Evaluation - Improvements																												
Test and Evaluation CPVA					■																							
Test and Evaluation Natural Environments																												
Test and Evaluation (OA)																												
Test and Evaluation AA									■																			

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FF2 / <i>Small Arms Fire Control</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Rapid Prototyping - Fire Control	1	2019	4	2021
Prototype Opportunity Notice	3	2019	3	2019
Other Transaction Agreement (OTA) Award - Rapid Prototyping	3	2020	3	2020
L3 Harris - Contractor Design and Prototype Fabrication	3	2020	4	2021
Vortex Optics- Contractor Design and Prototype Fabrication	3	2020	4	2021
Prototype Testing and Evaluation	1	2021	3	2021
Production Decision - NGFC	4	2021	4	2021
Iterative Prototyping - Fire Control Enhancements	1	2021	4	2028
OTA Award- Vortex Optics	2	2022	2	2022
Contractor Design and Prototype Fabrication	1	2022	4	2028
Test and Evaluation - IR Excursion and Integration	3	2022	3	2022
Task Order- Improvements FY22	4	2022	4	2022
Limited User Testing (LUT)	4	2023	1	2024
Task Order - Improvements FY23	2	2023	2	2023
Task Order - Improvements FY24	2	2024	2	2024
Task Order - Improvements FY25	2	2025	2	2025
Task Order - Improvements FY26	2	2026	2	2026
Task Order - Improvements FY27	2	2027	2	2027
Test and Evaluation - Improvements	4	2022	4	2028
Test and Evaluation CPVA	1	2024	1	2024
Test and Evaluation Natural Environments	2	2024	4	2024
Test and Evaluation (OA)	3	2025	1	2026
Test and Evaluation AA	1	2025	1	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</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
FM4: <i>Next Generation Squad Weapons</i>	-	17.156	16.141	10.805	-	10.805	10.818	10.934	11.056	11.168	0.000	88.078
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Next Generation Squad Weapons (NGSW) program will develop weapon systems and common 6.8mm cartridge to maintain overmatch and meet future force warfighter needs.

The M7 Rifle is the planned replacement for the M4A1 Carbine in the close combat force and select support units. The M7 Rifle will provide capability improvements in accuracy, range, and lethality.

The M250 Automatic Rifle is the planned replacement for the M249 Squad Automatic Weapon (SAW) in the close combat force and select support units. The M250 Rifle combines the firepower and range of a machine gun with the precision and ergonomics of a carbine, yielding capability improvements in accuracy, range, and lethality.

The M7 Rifle and M250 Automatic Rifle will use a common 6.8mm cartridge in a variety of ammunition types including but not limited to general purpose (GP), special purpose (SP), reduced range, and blank.

Development efforts for additional NGSW variants may follow to replace other legacy systems or provide additional enhanced capabilities.

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

	FY 2023	FY 2024	FY 2025
Title: Contractor Design and Improvements	6.964	7.750	3.822
Description: Contractor design, development and improvements.			
FY 2024 Plans: Will continue improvements on the NGSW weapons to enhance system performance. Efforts will include: weapon system reliability and dispersion; reduction in recoil forces and total system weight, integration of new 6.8mm ammunition types and projectile development; continued development and integration of the powered rail, battery, and intra-Soldier wireless data transfer solutions to improve the interface with the Next Generation Squad Weapons Fire Control, as well as other optics, enablers and Soldier equipment. Will purchase additional test articles to support integration, testing and user evaluations.			
FY 2025 Plans: Will continue improvements on the NGSW weapons to enhance system performance. Improvements will focus on feedback gained from operational test events to enhance the user's ability to effectively complete their missions. Efforts will include weapon system reliability and dispersion; reduction in recoil forces and total system weight, integration of new 6.8mm ammunition types			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
and projectile development, as well as other optics, enablers and Soldier equipment. Will purchase additional test articles to support integration, testing and user evaluations.				
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases due to the transition from initial iterative prototyping and conclusion of operational testing phase.				
Title: Engineering Support		1.131	1.300	1.200
Description: Government engineering support, providing oversight of design, development and contractor performance.				
FY 2024 Plans: Will continue government-engineering support to provide design, limited testing, and oversight of development and contractor performance for capability enhancements and design improvements.				
FY 2025 Plans: Will continue government-engineering support to provide design, limited testing, and oversight of development and contractor performance for capability enhancements and design improvements.				
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases due to decreased test activities.				
Title: Test and Evaluation		3.543	6.571	5.263
Description: Testing and evaluation at government ranges and facilities.				
FY 2024 Plans: Will conduct Natural Environment Testing in Arctic, Hot and Tropic Environments, will begin preparation and support of Live Fire Test and Evaluations, will begin preparation and coordination for Initial Operational Test and Evaluation of production representative weapons, and other operational and technical testing requirements. Will continue testing vendor hardware at Government facilities to assess potential system enhancements, integration with other enablers and continue user evaluations.				
FY 2025 Plans: Will complete Live Fire Test and Evaluations, conduct Operational Assessment, continue Natural Environment Testing, and conduct other operational evaluations. Will continue testing vendor hardware at USG facilities to assess product improvements and potential future system enhancements, integration with other enables and will continue user evaluations.				
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreases due to decreased test activities.				
Title: Program Management		0.518	0.520	0.520

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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 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Description: Program management office and oversight of government and contractor efforts.			
FY 2024 Plans: Program management office will continue to provide oversight of contract actions, engineering support and test activities.			
FY 2025 Plans: Program management office will continue to provide oversight of contract actions, engineering support and test activities.			
Accomplishments/Planned Programs Subtotals	12.156	16.141	10.805

	FY 2023	FY 2024
Congressional Add: NGSW Commercial Magazine Testing	5.000	-
FY 2023 Accomplishments: Purchase of commercially available magazines, weapons, ammunition, and required spare parts to conduct test and evaluation for use with the M7 Rifle. The magazines will be evaluated for system level performance and compatibility using the current magazine as a baseline to achieve system requirements outlined in the NGSW Tiered Capabilities Matrix.		
Congressional Adds Subtotals	5.000	-

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

Line Item	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
• S54: <i>Small Arms Improvement</i>	7.950	9.094	7.971	-	7.971	8.974	9.069	9.169	9.261	0.000	61.488
• EW4: <i>Crew Served Weapons Engineering Development</i>	7.277	4.300	3.685	-	3.685	3.981	4.022	4.067	4.108	0.000	31.440
• S63: <i>Individual Weapons Engineering Development</i>	3.812	3.549	3.430	-	3.430	3.704	3.742	3.784	3.822	Continuing	Continuing
• FL4: <i>Small Caliber Ammo for Next Gen Squad Weapons</i>	32.625	11.809	11.955	-	11.955	11.968	12.097	12.232	12.354	0.000	105.040
• G14511: <i>Next Generation Squad Weapon-Automatic Rifle</i>	10.161	18.665	23.133	-	23.133	13.833	15.820	13.862	14.000	Continuing	Continuing
• G14512: <i>NEXT GENERATION SQUAD WEAPON-RIFLE</i>	45.075	87.426	91.447	-	91.447	57.599	56.618	48.615	49.221	Continuing	Continuing
• E06001: <i>NEXT GENERATION SQUAD WEAPON AMMUNITION</i>	96.496	191.244	205.889	-	205.889	286.229	286.220	336.320	339.684	0.000	1,742.082

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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 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

The NGSW program, a Middle Tier Acquisition (MTA) program, transitioned from Rapid Prototyping authority under Section 804 of the FY 2016 National Defense Authorization Act (NDAA), to Rapid Fielding. Following a full and open competition, three vendors were selected for Rapid Prototyping and awarded Other Transaction Agreements (OTA) to prototype and mature system designs for a culminating test and evaluation effort to inform a down selection. Following successful completion of the prototyping effort, and approval of Rapid Fielding Authority, the Government awarded a follow-on contract to SIG Sauer Inc. for production and continued improvements of the M7 Rifle, the M250 Automatic Rifle, and 6.8mm common ammunition.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>
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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management	Allot	PM Soldier Lethality (PMSL) : Picatinny Arsenal, NJ	2.574	0.518	Oct 2022	0.520	Oct 2023	0.520	Oct 2024	-		0.520	0.000	4.132	-
Subtotal			2.574	0.518		0.520		0.520		-		0.520	0.000	4.132	N/A

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Design Improvements	C/FFP	SIG Sauer, Inc. : Newington, NH	9.048	6.964	Jun 2023	7.750	Feb 2024	3.822	Jan 2025	-		3.822	0.000	27.584	-
Commercial Magazine Testing (Congressional Add)	Allot	PM Soldier Lethality : Picatinny Arsenal, NJ	-	5.000	Mar 2023	-		-		-		-	0.000	5.000	-
Subtotal			9.048	11.964		7.750		3.822		-		3.822	0.000	32.584	N/A















Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering Support	MIPR	DEVCOM Armaments Center : Picatinny Arsenal, NJ	10.080	1.131	Nov 2022	1.300	Nov 2023	1.200	Nov 2024	-		1.200	0.000	13.711	-
Subtotal			10.080	1.131		1.300		1.200		-		1.200	0.000	13.711	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test and Evaluation	MIPR	Army Test and Evaluation Command (ATEC) :	9.390	3.543	Jan 2023	6.571	Jan 2024	5.263	Nov 2024	-		5.263	0.000	24.767	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029																																			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																
Production Qualification Testing (PQT)																																																												
Limited Lethality Assessments (LLA)																																																												
Test and Evaluation - Limited User Testing (LUT)																																																												
Natural Environmental Tests																																																												
Test and Evaluation - LFT&E																																																												
Test and Evaluation - IOT&E																																																												
Product Improvements																																																												
Task Order and Product Improvements																																																												
Task Order - Product Improvement FY23																																																												
Task Order - Product Improvement FY24																																																												
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Task Order - Product Improvement FY39																																																												
Task Order - Product Improvement FY40																																																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Task Order - Product Improvement FY28																					▲ 6							
Test and Evaluation - Product Improvements																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Rapid Prototyping - Rifle / AR / Common Cartridge	4	2019	4	2021
Prototype Opportunity Notice	2	2019	2	2019
Other Transaction Agreements (OTA) Award - Rapid Prototyping	4	2019	4	2019
Sig Sauer Inc.- Contractor Design and Prototype Fabrication	4	2019	4	2021
General Dynamics- OTS Inc- Contractor Design and Prototype Fabrication	4	2019	4	2021
AAJ CorpTextron Systems - Contractor Design and Prototype Fabrication	4	2019	4	2021
SIG Sauer - Production Down-Selection	3	2022	3	2022
Prototype Testing (Phase I) - Test and Evaluation	3	2020	4	2020
Prototype Testing (Phase II) - Test and Evaluation	2	2021	4	2021
Production Qualification Testing (PQT)	3	2023	4	2023
Limited Lethality Assessments (LLA)	3	2023	4	2023
Test and Evaluation - Limited User Testing (LUT)	4	2023	1	2024
Natural Environmental Tests	2	2024	4	2025
Test and Evaluation - LFT&E	3	2024	1	2025
Test and Evaluation - IOT&E	1	2025	2	2025
Product Improvements	1	2022	4	2025
Task Order - Iterative Prototyping	3	2022	3	2022
Task Order and Product Improvements	3	2022	4	2028
Task Order - Product Improvement FY23	3	2023	3	2023
Task Order - Product Improvement FY24	3	2024	3	2024
Task Order - Product Improvement FY25	2	2025	2	2025
Task Order - Product Improvement FY26	2	2026	2	2026
Task Order - Product Improvement FY27	2	2027	2	2027

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) FM4 / <i>Next Generation Squad Weapons</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
Task Order - Product Improvement FY28	2	2028	2	2028
Test and Evaluation - Product Improvements	3	2022	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S58 / <i>Soldier Enhancement 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
<i>S58: Soldier Enhancement Program</i>	-	10.077	4.897	4.977	-	4.977	4.984	4.988	5.044	5.095	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act in Fiscal Year 1990 to provide a rapid approach to evaluate Commercial off-the-shelf (COTS), Government off-the shelf (GOTS), or Non-Developmental Items (NDI) capabilities to increase the combat effectiveness of the Soldier. SEP now uses a "buy, try and decide" methodology. SEP provides significant savings and acceleration in the evaluation of leading-edge Soldier capabilities in order to provide combat overmatch. The SEP tri-chair leadership consists of the Director, Maneuver Capabilities Development and Integration Directorate (MCDID), the Infantry Commandant, and Program Executive Officer (PEO) Soldier. Proposals are submitted by Soldiers and industry at any time, are reviewed monthly and new projects are approved semi-annually by the SEP Council of Colonels (CoC). Approved proposals are validated by the Director, MCDID. Validated SEP initiatives are procured and then evaluated by Soldiers for feasibility and suitability. Based on the evaluation findings, the SEP CoC provides one or more of the following courses of action: (1) inform deliberate or urgent/emerging requirements generation, (2) initiate a new Program of Record (POR) or improve an existing POR, (3) provide a national stock number (NSN) for unit procurement or (4) the item did not meet objectives and no further action is necessary. The funding supports SEP evaluation preparation, conducting evaluations, and documenting results. Funding for this project aligns with the Army's priorities in support of the National Defense Strategy and is a priority of the Army Futures Command (AFC).

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

	FY 2023	FY 2024	FY 2025
Title: Evaluate COTS/GOTS/NDI equipment that have the potential to enhance Soldier combat effectiveness.	5.077	4.897	-
Description: The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act in Fiscal Year 1990 to provide a rapid approach to evaluate Commercial off-the-shelf (COTS), Government off-the shelf (GOTS), or Non-Developmental Items (NDI) capabilities to increase the combat effectiveness of the Soldier. SEP now uses a "buy, try and decide" methodology. SEP provides significant savings and acceleration in the evaluation of leading-edge Soldier capabilities in order to provide combat overmatch. The SEP tri-chair leadership consists of the Director, Maneuver Capabilities Development and Integration Directorate (MCDID), the Infantry Commandant, and Program Executive Officer (PEO) Soldier. Proposals are submitted by Soldiers and industry at any time, are reviewed monthly and new projects are approved semi-annually by the SEP Council of Colonels (CoC). Approved proposals are validated by the Director, MCDID. Validated SEP initiatives are procured and then evaluated by Soldiers for feasibility and suitability. Based on the evaluation findings, the SEP CoC provides one or more of the following courses of action: (1) inform deliberate or urgent/emerging requirements generation, (2) initiate a new Program of Record (POR) or improve an existing POR, (3) provide a national stock number (NSN) for unit procurement or (4) the item did not meet objectives and no further action is necessary. The funding supports SEP evaluation preparation, conducting evaluations, and documenting results. Funding for this project aligns with the Army's priorities in support of the National Defense Strategy and is a priority of the Army Futures Command (AFC).			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> Funding will support evaluation of 15 SEP Council of Colonels approved and validated initiatives. Evaluations will include safety testing, collection, and analysis of user feedback and documentation of results.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> The FY 2025 decrease represents a shift of priorities to SEP Evaluations for safety testing, collection, and analysis of user feedback and the documentation of results.</p>				
<p><i>Title:</i> Program oversight</p> <p><i>FY 2025 Plans:</i> Fund travel and purchases required to perform oversight functions.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase to support program oversight requirements.</p>		-	-	0.383
<p><i>Title:</i> SEP Evaluations</p> <p><i>Description:</i> The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act for Fiscal Years 1990 and informs Army requirements generation and capitalizes on industry capabilities to support current and future force modernization. SEP provides a rapid approach to evaluate Commercial off-the-shelf (COTS), Government off-the shelf (GOTS), or Non-Developmental Items (NDI) capabilities to increase Soldier combat effectiveness. Using a "buy, try and decide" methodology, SEP provides significant savings and accelerates the evaluation of leading-edge Soldier capabilities to provide combat overmatch. Proposals are submitted by Soldiers, commanders, commercial industry and others at any time, are reviewed quarterly and new starts are approved semi-annually by the SEP Council of Colonels (CoC). Approved proposals are validated by the Director, Maneuver Capability Development and Integration Directorate (MCDID), the Infantry Commandant, and Program Executive Office (PEO) Soldier. Validated SEP initiatives are procured and evaluated by Soldiers for feasibility and suitability. The funding supports SEP evaluation preparation, execution, and results documentation. Funding for this project aligns with the Army's priorities in support of the National Defense Strategy and is an Army Futures Command (AFC) priority.</p> <p><i>FY 2025 Plans:</i> Conduct product assessments, acquire safety confirmations, and perform evaluations of COTS/GOTS/NDI capabilities to support the Army's Modernization Strategy to enhance and improve Soldier combat effectiveness.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase to support product assessments, address safety requirements and other program evaluations.</p>		-	-	4.594
Accomplishments/Planned Programs Subtotals		5.077	4.897	4.977

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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 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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	FY 2023	FY 2024
Congressional Add: Program increase - soldier enhancement program	5.000	-
FY 2023 Accomplishments: \$5,000,000 was a Congressional Add for FY23 and will support evaluation of approximately 15 SEP Council of Colonels approved and validated initiatives to enhance Soldier combat effectiveness. Product evaluations will include safety testing, collection and analysis of Soldier feedback/results and documentation of results.		
Congressional Adds Subtotals	5.000	-

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

N/A

Remarks

Other

D. Acquisition Strategy

SEP focuses on COTS/GOTS/NDI initiatives submitted by Soldiers and industry. SEP proposals are reviewed monthly and approved semi-annually. The funding supports procuring SEP COTS/GOTS/NDI items in quantities sufficient for Soldier evaluation, conducting product evaluations which includes safety testing, data collection, analysis of Soldier feedback/results and documenting results. Product Managers responsible for the portfolio in which the SEP initiative falls into develops the procurement and evaluation strategy and procures the items using a variety of means from Government purchase card to full contracts. Soldier's evaluations are performed by various means from Battle Lab surveys to full scale Army Test and Evaluation testing depending on the item.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Various	MIPR	PEO SOLDIER : Ft. Belvoir, VA	15.186	0.190	Aug 2023	0.373	Aug 2024	0.383	Aug 2024	-		0.383	0.000	16.132	-
Subtotal			15.186	0.190		0.373		0.383		-		0.383	0.000	16.132	N/A

Remarks
Systems Engineering and Program Management includes engineering support, conducting technical evaluations, market research and program reviews.

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Increase - Soldier Enhancement Program	TBD	Various : Various	-	5.000		-		-		-		-	0.000	5.000	-
Subtotal			-	5.000		-		-		-		-	0.000	5.000	N/A

Remarks
Candidates for the Soldier Enhancement Program are received, reviewed, and approved semi-annually. Contractual efforts are focused on procuring prototypes for testing.

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SEP Evaluations	MIPR	Various : Various	66.172	4.887	May 2023	4.524	May 2024	4.594	May 2024	-		4.594	0.000	80.177	-
Subtotal			66.172	4.887		4.524		4.594		-		4.594	0.000	80.177	N/A

Remarks
Testing costs vary annually depending on number and type of items being evaluated.

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		81.358	10.077	4.897	4.977	-	4.977	0.000	101.309	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
SEP Council of Colonels approve/prioritization process F...	▲1																											
Evaluate Initiatives 1-3QFY23	■																											
SEP Council of Colonels approve/prioritization process F...		▲2																										
Evaluate Initiatives 3QFY23-1QFY24		■																										
SEP Council of Colonels approve/prioritization process F...			▲3																									
Evaluate Initiatives 1-3QFY24			■																									
SEP Council of Colonels approve/prioritization process F...				▲4																								
Evaluate Initiatives 3QFY24-1QFY25				■																								
SEP Council of Colonels approve/prioritization process F...									■																			
Evaluate Initiatives 2QFY25-3QFY25									■																			
SEP Council of Colonels approve/prioritization process F...										■																		
Evaluate Initiatives 4QFY25-1QFY26										■																		
SEP Council of Colonels approve/prioritization process F...											■																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Evaluate Initiatives 2QFY26-3QFY26													█															
SEP Council of Colonels approve/prioritization process F...																												
Evaluate Initiatives 4QFY26-1QFY27													█															
SEP Council of Colonels approve/prioritization process F...																												
Evaluate Initiatives 2QFY27-3QFY27																	█											
SEP Council of Colonels approve/prioritization process F...																												
Evaluate Initiatives 4QFY27-1QFY28																	█											
SEP Council of Colonels approve/prioritization process F...																												
Evaluate Initiatives 2QFY28-3QFY28																	█											
SEP Council of Colonels approve/prioritization process F...																												
Evaluate Initiatives 4QFY28-1QFY29																	█											
SEP Council of Colonels approve/prioritization process F...																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
SEP Council of Colonels approve/prioritization process FY23.1	1	2023	1	2023
Evaluate Initiatives 1-3QFY23	1	2023	3	2023
SEP Council of Colonels approve/prioritization process FY23.2	3	2023	3	2023
Evaluate Initiatives 3QFY23-1QFY24	3	2023	1	2024
SEP Council of Colonels approve/prioritization process FY24.1	1	2024	1	2024
Evaluate Initiatives 1-3QFY24	1	2024	3	2024
SEP Council of Colonels approve/prioritization process FY24.2	3	2024	3	2024
Evaluate Initiatives 3QFY24-1QFY25	3	2024	1	2025
SEP Council of Colonels approve/prioritization process FY25.1	1	2025	1	2025
Evaluate Initiatives 2QFY25-3QFY25	1	2025	3	2025
SEP Council of Colonels approve/prioritization process FY25.2	3	2025	3	2025
Evaluate Initiatives 4QFY25-1QFY26	3	2025	1	2026
SEP Council of Colonels approve/prioritization process FY26.1	1	2026	1	2026
Evaluate Initiatives 2QFY26-3QFY26	1	2026	3	2026
SEP Council of Colonels approve/prioritization process FY26.2	3	2026	3	2026
Evaluate Initiatives 4QFY26-1QFY27	3	2026	1	2027
SEP Council of Colonels approve/prioritization process FY27.1	1	2027	1	2027
Evaluate Initiatives 2QFY27-3QFY27	1	2027	3	2027
SEP Council of Colonels approve/prioritization process FY27.2	3	2027	3	2027
Evaluate Initiatives 4QFY27-1QFY28	3	2027	1	2028
SEP Council of Colonels approve/prioritization process FY28.1	1	2028	1	2028
Evaluate Initiatives 2QFY28-3QFY28	1	2028	3	2028
SEP Council of Colonels approve/prioritization process FY28.2	3	2028	3	2028

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
Evaluate Initiatives 4QFY28-1QFY29	3	2028	1	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S60 / <i>Clothing & Equipment</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
S60: <i>Clothing & Equipment</i>	-	6.083	3.427	6.218	-	6.218	8.675	8.768	8.866	8.955	0.000	50.992
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funding in this effort supports the Army's Cross Functional Teams (CFT) initiatives. It supports engineering and manufacturing development tasks related to clothing and individual equipment with the goal of enhancing the lethality, survivability, and mobility as well as the quality of life of the Warfighter. It funds formal Developmental Testing/Operational Testing (DT/OT) of preproduction and prototypes leveraging technological advancements. Those advancements focus on materials, fabrication techniques, moisture management, flame resistance, vector protection, extreme environmental protection and camouflage. This effort also funds evaluations of Organizational Clothing and Individual Equipment (OCIE) appropriate for use in extreme or multi-climate environments. Funding to support test and evaluation of both tactical and non-tactical clothing and individual equipment development and enhancement resulting in the integrated systems for the Airborne, Arctic, Arid, Jungle, and Temperate Soldier. This effort will further develop capabilities transitioning from Project S53 to increase performance and safety of Warfighter clothing and equipment. PdM SCIE will continue to support multi-service commonality initiatives through technology that enables combat operations in a gender integrated fighting force.

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

	FY 2023	FY 2024	FY 2025
Title: Soldier Uniforms and Clothing	3.253	1.723	4.062
Description: Evaluate superior, integrated and sustainable clothing and footwear for the Soldier in an evolving global security environment.			
FY 2024 Plans: Perform technical testing, user evaluations, and qualify new fabrics with vector protection and FR protection for combat clothing and Cold Weather/Extreme Cold Weather Clothing. Supports opportunities for commonality in OCIE across all Services (Army, Navy, Air Force, Marines and Coast Guard) and further supports the domestic Clothing and Textile Industrial Base. Long term evaluation study for Army Green Service Uniform. Continued development of Improved Combat Vehicle Crewman Uniform to include female and male variant patterns. Annual evaluation of domestic material solution submissions to support the Athletic Footwear program. Evaluate domestic materiel solution to support extreme cold weather footwear capability gap. Continue Clothing Bag Upgrades and Evaluations as directed by the Army Uniform Board. Procure test assets and perform DT/OT on uniforms produced with improved Identification Friend or Foe (IFF) capability, microwave protective materials to defeat emerging threats and on uniforms designed to mitigate Ground Surveillance Radar (GSR) detection. Conduct ensemble level evaluations of novel materials and fabrics in clothing, footwear and equipment in all climates.			
FY 2025 Plans: Conduct ensemble level evaluations of novel materials providing moisture management, flame resistance, reduction in signature, antimicrobial treatments for fabrics in clothing, footwear and equipment in all climate zones. Perform technical testing, user evaluations, and qualify new fabrics with vector protection and flame resistance protection for combat clothing. Supports			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>opportunities for commonality in OCIE across all Services (Army, Navy, Air Force, Marines, Space Force and Coast Guard) and further supports the domestic Clothing and Textile Industrial Base. Continued development of Improved Combat Vehicle Crewman Uniform to include female and male variant patterns. Continue Clothing Bag Upgrades and Evaluations as directed by the Army Uniform Board. Procure test assets and perform DT/OT on garments produced with improved thermal camouflage capability.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding is increasing between FY24 and FY25 due to the incorporation of improved thermal camouflage capability and flame resistance fabrics.</p>				
<p>Title: Individual Equipment</p> <p>Description: Evaluate superior, integrated and sustainable individual equipment for the Soldier in an evolving global security environment.</p> <p>FY 2024 Plans: Procure test assets and perform Developmental Tests/Operational Tests (DT/OT) as required for Water Treatment Devices for desalinization. Continue to develop the Welding Individual Protection System (WIPS) ensemble to provide welders with Occupational Safety Health Act (OSHA) compliant Personal Protective Equipment (PPE). Supports opportunities for commonality in OCIE across all Services (Army, Navy, Air Force, Marines and Coast Guard) and further supports the domestic Clothing and Textile Industrial Base. Procure and test quick reaction camouflage to reduce thermal signature and to enhance individual equipment camouflage. Procure test assets and perform DT/OT on multi-purpose and specialized load carriage equipment, sleeping mats, and individual shelters. Product office will be conducting testing on items appropriate for use in extreme or multi-climate environments focusing on arctic mobility equipment.</p> <p>FY 2025 Plans: Procure test assets and perform Developmental Tests/Operational Tests (DT/OT) as required for Water Treatment Devices. Continue to develop the Welding Individual Protection System (WIPS) ensemble to provide welders with Occupational Safety Health Act (OSHA) compliant Personal Protective Equipment (PPE). Evaluate opportunities to mitigate signature threats across load carriage and individual equipment. Conduct Soldier testing of items appropriate for use in extreme or multi-climate environments focusing on arctic mobility equipment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding is increasing between FY24 and FY25 to support design and evaluation of load carriage equipment.</p>		2.830	1.704	2.156
Accomplishments/Planned Programs Subtotals		6.083	3.427	6.218

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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 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• S53: <i>Clothing And Equipment</i>	2.966	4.700	5.959	-	5.959	8.589	8.681	8.776	8.864	Continuing	Continuing
• OMA - CFF OMA 121018: <i>SCIE OMA 121018</i>	-	-	-	-	-	-	-	-	-		

Remarks

D. Acquisition Strategy

Acquisition strategies for these programs vary in methods, and range from: 1) Materiel Change Proposals that result in engineering changes to existing systems to; 2) Traditional development programs that include an Engineering and Manufacturing Development phase ranging in duration from 12 to 48 months, depending on the level of complexity and testing required.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support	Allot	PM SCIE : Ft Belvoir	13.462	0.588		0.377		0.638		-		0.638	Continuing	Continuing	Continuing
Subtotal			13.462	0.588		0.377		0.638		-		0.638	Continuing	Continuing	N/A

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering and Development Support	Various	DEVCOM : Natick, MA	18.547	0.845		0.496		1.236		-		1.236	Continuing	Continuing	Continuing
Development Contracts	Various	Various : Various	58.422	1.494		0.891		-		-		-	0.000	60.807	-
Subtotal			76.969	2.339		1.387		1.236		-		1.236	Continuing	Continuing	N/A

Remarks
Previously annotated Development contracts (FY23 and FY24) are being placed in Engineering and Development Support cost element to align with DoD 7000.14-R, Volume 2B, Chapter 5.

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Technical Support	Various	DEVCOM : Natick, MA	19.905	1.378		0.787		1.162		-		1.162	Continuing	Continuing	Continuing
Subtotal			19.905	1.378		0.787		1.162		-		1.162	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Operational Test & Evaluation (OT&E)	MIPR	Various : Various	36.382	1.778		0.876		3.182		-		3.182	Continuing	Continuing	Continuing
Subtotal			36.382	1.778		0.876		3.182		-		3.182	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
UNIFORM CLOTHING & FOOTWEAR																												
Enhanced Uniform Upgrades																												
Clothing Bag Upgrades and Evaluations																												
Spectral Mitigation																												
Cold Weather/Extreme Cold Weather Clothing and Footwear ...																												
Athletic Footwear																												
INDIVIDUAL EQUIPMENT																												
Water Treatment for Soldier Hydration																												
Evaluation of Cold Weather Mobility items																												
Welding Individual Protection System (WIPS)																												
Individual Shelter																												
Sleeping Mats																												
Hydration shelf life testing																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Load Carriage																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
UNIFORM CLOTHING & FOOTWEAR	1	2011	4	2028
Enhanced Uniform Upgrades	3	2009	4	2029
Clothing Bag Upgrades and Evaluations	1	2013	4	2029
Spectral Mitigation	1	2020	4	2029
Cold Weather/Extreme Cold Weather Clothing and Footwear Improvement	1	2023	4	2028
Athletic Footwear	1	2021	4	2024
INDIVIDUAL EQUIPMENT	2	2008	4	2027
Water Treatment for Soldier Hydration	2	2021	4	2029
Evaluation of Cold Weather Mobility items	1	2024	4	2027
Welding Individual Protection System (WIPS)	1	2022	4	2025
Individual Shelter	1	2023	4	2025
Sleeping Mats	1	2023	4	2024
Hydration shelf life testing	1	2023	4	2028
Load Carriage	1	2019	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S61 / <i>Acis Engineering 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
S61: <i>Acis Engineering Development</i>	-	10.553	3.788	3.025	-	3.025	3.857	3.476	3.552	3.627	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project conducts development, integration, qualification, and upgrade activities in support of the Air Soldier System (Air SS) and Aviation operational needs codified in the Air SS requirements document. The Air SS is Army aircrew survival and mission equipment that improves safety, survivability, and mission performance. The Air SS addresses capability gaps identified during combat operations, as well as emerging challenges to Army aircrew safety and performance caused by the bulk and weight of Soldier-worn equipment, limited Situational Awareness (SA), lack of protection from emerging threats, and a lack functionally integrated mission electronics and protective/ survival equipment. Air SS delivers improved aircrew survivability, SA, interoperability, and mission performance. The Air SS provides enhanced mission planning and execution through the introduction of upgraded hardware and software components allowing for improved connectivity between aircrew members, other aircraft, and ground assets. Capabilities further improve terrain mapping, threat, and obstacle avoidance information through improved Heads-Up Display (HUD) technologies which also align to needs of the Future Long Range Assault Aircraft (FLRAA). Additional effort is focused on a digital replacement for paper-based DoD Flight Information Publications, and the Aircrew Combat Equipment (ACE), a replacement for the legacy survival vest with integral Modular Scalable Vest body armor. These enhanced capabilities support both the enduring fleet and future fleet.

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

	FY 2023	FY 2024	FY 2025
Title: Air Soldier System	3.053	3.788	3.025
Description: This project conducts development, integration, and qualification activities in support of the Air SS program. The Air SS addresses capability gaps identified during previous combat operations. This includes crew station compatibility challenges caused by the burden of excessive equipment bulk and weight; impacts to safety resulting from excessive pilot workload and limited aircrew SA; and inadequate aircrew protection from environmental extremes, hostile threats, and induced threats resulting from aircraft mishaps or crashes.			
FY 2024 Plans: The Program will focus on supporting Army aircrew Nett Warrior-Aviation hardware and software changes and the integration and test of deferred Nett Warrior-Aviation Common Operating Environment requirements. Continue support for the execution of Pre-Planned Product Improvements (P3I) capability demonstrations in conjunction with upcoming field training exercises and key Army demonstration and experimentation events focused on Air Soldier System capabilities intended to enhance Air Ground Operations in support of Multi-Domain Operations initiatives.			
FY 2025 Plans: The Program will continue to focus on supporting Army aircrew hardware and software changes, and integration and test of NW-A Air SS requirements. Continue support for the execution of P3I capability demonstrations in conjunction with upcoming Soldier			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Touch Points and key Army demonstration and experimentation events focused on Air SS capabilities intended to enhance AGO in support of Large-Scale Combat Operations initiatives. Begin integration of Air SS products into the FLRAA platforms.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding decrease from FY 2024 to FY 2025 is due to anticipated decrease in HUD Integration.			
<i>Title:</i> Congressional Add for TacPAN	7.500	-	-
<i>Description:</i> Intent of TacPAN efforts is to develop a body-mounted, equipment-embedded power and data distribution and management system, that provide significant capability and human factors upgrades by reducing weight and bulk by 30% over current Air Warrior systems. Congressional add funding facilitates further maturation of TacPAN hardware and software. Perform bench test evaluations collecting sufficient data to provide authorization to test on aircraft in flight. Provide adequate software test documentation demonstrating system is safe to fly and produce sufficient hardware systems to support limited development testing in flight.			
Accomplishments/Planned Programs Subtotals	10.553	3.788	3.025

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• AZ3110: <i>Aircrew Integrated Systems</i>	25.773	22.097	14.478	-	14.478	15.148	15.303	15.387	15.595	0.000	123.781

Remarks

D. Acquisition Strategy

Air SS Milestone C was approved in April 2019 for initial capabilities to include: Aircraft-mounted hardware and helmet worn displays that provide integrated helmet capabilities and increased aircrew SA; and Protective and Survival Soldier Kit items that reduce equipment weight and bulk and improve aircrew mission effectiveness and survivability. Air SS capabilities are being phased into procurement over time. Efforts for the Air SS program included development, integration, test, and airworthiness qualification of aviator flight display symbology technologies, hardware and software changes of NW-A Air SS requirements and integration of Air SS products into the FLRAA platforms. Air SS requirements include improvements to the current flight helmet; improvements to the survival gear carriage system; lightweight body armor; environmental protective clothing and personal survival equipment; enhanced mission planning and execution capability allowing for improved connectivity between aircrew members, other aircraft, and ground assets and a day/night helmet-mounted flight symbology display for Rotary Wing platform aviators. These efforts migrate from program/platform-unique hardware and software solutions to common integrated air/ground solutions that align with Network and Future Vertical Lift (FVL) modernization priorities.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>
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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
PM Administration	Allot	Various Government : Huntsville, Alabama	4.459	0.148		0.181		0.144		-		0.144	Continuing	Continuing	Continuing
Subtotal			4.459	0.148		0.181		0.144		-		0.144	Continuing	Continuing	N/A

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Air Warrior and Air Soldier System Development	C/CPFF	Various Government : Various Locations	67.396	2.538		2.880		2.301		-		2.301	Continuing	Continuing	Continuing
TACPAN Congressional Add	TBD	TBD : TBD	-	7.500		-		-		-		-	0.000	7.500	-
Subtotal			67.396	10.038		2.880		2.301		-		2.301	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Matrix Support	RO	Various Government : Various Locations	4.587	0.089		0.582		0.464		-		0.464	Continuing	Continuing	Continuing
Subtotal			4.587	0.089		0.582		0.464		-		0.464	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental and Operational Testing	RO	Various Activities : Various Locations	20.536	0.278		0.145		0.116		-		0.116	Continuing	Continuing	Continuing
Subtotal			20.536	0.278		0.145		0.116		-		0.116	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>
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	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	96.978	10.553	3.788	3.025	-	3.025	Continuing	Continuing	N/A

Remarks
 Funds for this project are allocated amongst several smaller development/qualification programs at various stages of technical maturity intended to address capability gaps associated with deferred Air SS capabilities being implemented as P3I to the baseline Air SS program. Efforts are largely focused on transitioning technologies and products initially developed under small Business Innovative Research (SBIR) programs, Technology Maturation Initiatives (TMI), and/or the identification and qualification of COTS/ GOTS capabilities that have the potential of satisfying remaining capability gaps as documented in the Air SS CDD.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Air SS P3I (Deferred Air SS CDD requirements)																												
Aircrew Combat Equipment (ACE)																												
Nett Warrior Aviation (NW-A)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Air SS P3I (Deferred Air SS CDD requirements)	1	2017	4	2030
Aircrew Combat Equipment (ACE)	1	2021	4	2030
Nett Warrior Aviation (NW-A)	2	2022	4	2030

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S63 / <i>Individual Weapons Engineering 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
S63: <i>Individual Weapons Engineering Development</i>	-	3.812	3.549	3.430	-	3.430	3.704	3.742	3.784	3.822	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Individual Weapons Engineering Development program provides funds to transition components or prototypes from Budget Activity 4 (BA 4) Element (PE) 0603827A Soldier Systems - Advanced Development Project S54 Small Arms Improvement Program and other domestic and foreign sources of small arms weapon systems to demonstrate, test and evaluate capability near or at planned operational requirements. The Maneuver Center of Excellence (MCoE), Fort Moore, GA (User Community) identifies the Individual Weapons Engineering Development as a critical capability gap for our Soldiers in combat and Soldier Lethality Cross Functional Team (CFT) has assumed this need as a task. Small arms systems include weapons up to 40 millimeter (mm) in caliber. Current and future efforts focus on system improvements designed to enhance lethality, target acquisition, fire control, usability, training effectiveness and reliability of weapons to include ammunition when developing and/or evaluating standard and non-standard weapons. Focus areas include system development, integration (to include human-systems), demonstration, test and evaluate components, prototypes and operational system prototypes of small arms weapon systems and/or enhancements. Benefits include continuous improvements to small arms weapon systems, fire control equipment, optics, gun barrels, ancillary equipment, training devices, component mounts, weapon mounts, and weapon/ammunition interface of current small arms fleet or new weapon systems.

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

	FY 2023	FY 2024	FY 2025
Title: Design and Development	3.018	2.593	2.593
Description: Design and development of Individual Weapons			
FY 2024 Plans: New Weapons and Enabling Technology Evaluation and Assessment will continue to focus on weapon design and development utilizing current state-of-the-art technologies and integration of those technologies for individual weapons across the spectrum of small arms from pistols through rifles and grenade launchers. Evaluation will focus on terminal effects and those technologies utilized to achieve on-target effects, as well as increase sustainability, reliability, and producibility and will include advanced combat optics and improvement of small arms munitions.			
FY 2025 Plans: New Weapons and Enabling Technology Evaluation and Assessment will continue to focus on weapon design and development utilizing current state-of-the-art technologies and integration of those technologies for individual weapons across the spectrum of small arms from pistols through rifles and grenade launchers. Evaluation will focus on terminal effects and those technologies			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Individual Weapons Engineering Development</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
utilized to achieve on-target effects, as well as increase sustainability, reliability, and producibility and will include advanced combat optics and improvement of small arms munitions.			
Title: Testing and Evaluation	0.794	0.956	0.837
Description: Test and evaluation of Individual Weapons			
FY 2024 Plans: New Weapons and Enabling Technology Testing and Evaluation will continue to test and evaluate new technology that can lead to enhancements of current and legacy weapon systems or create new weapon systems, as well as advanced combat optics and improvement of small arms munitions.			
FY 2025 Plans: New Weapons and Enabling Technology Testing and Evaluation will continue to test and evaluate new technology that can lead to enhancements of current and legacy weapon systems or create new weapon systems, as well as advanced combat optics and improvement of small arms munitions.			
FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in FY25 funding represents less estimated testing for New Weapons and Enabling Technology.			
Accomplishments/Planned Programs Subtotals	3.812	3.549	3.430

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• S54: <i>Small Arms Improvement</i>	7.950	9.094	7.971	-	7.971	8.974	9.069	9.169	9.261	0.000	61.488
• G13503: <i>M4A1 CARBINE</i>	-	0.571	0.003	-	0.003	0.003	0.003	-	-	0.000	0.580
• G01501: <i>XM320 Grenade Launcher Module (GLM)</i>	11.703	14.143	17.747	-	17.747	17.909	17.930	17.905	18.084	Continuing	Continuing
• G15325: <i>Handgun</i>	-	0.032	0.034	-	0.034	0.007	0.007	-	-	0.000	0.080
• GL3200: <i>Items Less Than \$5.0m (WOCV-WTCV)</i>	5.271	1.148	1.031	-	1.031	2.185	2.189	2.191	2.214	Continuing	Continuing

Remarks
In support of Small Arms Requirements, components or prototypes developed in BA 4 PE 0603827A Soldier Systems - Advanced Development Project S54 Small Arms Improvement Program is transitioned to BA 5 PE 0604601A Infantry Support Weapons Project S63 Individual Weapons Engineering Development to conduct

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Individual Weapons Engineering Development</i>

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
engineering and manufacturing development. Once the component, prototype or operational prototype achieves Milestone C and type classification the item transitions to small arms weapon systems production or modification program.											

D. Acquisition Strategy

Primary strategy is to mature and finalize design efforts, award Research, Development, Test and Evaluation (RDT&E) Defense Ordnance Technology Consortium (DOTC) and Other Transaction Authority (OTA) type hardware contracts. Test and evaluate systems that result in type classification, material release, and follow-on production contract awards.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
2040 / 5				PE 0604601A / Infantry Support Weapons				S63 / Individual Weapons Engineering Development								
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Management	Allot	PM Soldier Lethality, : Picatinny Arsenal	11.362	0.050	Mar 2023	0.050	Mar 2024	0.050	Mar 2025	-		0.050	Continuing	Continuing	Continuing	
Travel	MIPR	PM Soldier Lethality, : Picatinny Arsenal	1.597	0.010	Mar 2023	0.010	Mar 2024	0.010	Mar 2025	-		0.010	Continuing	Continuing	Continuing	
Subtotal			12.959	0.060		0.060		0.060		-		0.060	Continuing	Continuing	N/A	
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Fabrication	Various	Various : Multiple Contractors	5.037	0.408	Mar 2023	0.408	Mar 2024	0.408	Mar 2025	-		0.408	Continuing	Continuing	Continuing	
Hardware Development	MIPR	DEVCOM AC, : Multiple	19.658	1.631	Mar 2023	1.243	Mar 2024	1.200	Mar 2025	-		1.200	Continuing	Continuing	Continuing	
Subtotal			24.695	2.039		1.651		1.608		-		1.608	Continuing	Continuing	N/A	
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Engineering	MIPR	DEVCOM AC, : Multiple	69.625	0.719	Mar 2023	0.708	Mar 2024	0.710	Mar 2025	-		0.710	Continuing	Continuing	Continuing	
Logistics	MIPR	TACOM, : Warren	5.278	0.100	Mar 2023	0.100	Mar 2024	0.100	Mar 2025	-		0.100	Continuing	Continuing	Continuing	
Human Research and Engineering	MIPR	Army Research Laboratory, : Aberdeen Proving Ground	4.203	0.100	Mar 2023	0.100	Mar 2024	0.100	Mar 2025	-		0.100	Continuing	Continuing	Continuing	
Subtotal			79.106	0.919		0.908		0.910		-		0.910	Continuing	Continuing	N/A	

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Individual Weapons Engineering Development</i>	

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DESIGN AND DEVELOPMENT																												
TEST AND EVALUATION																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Individual Weapons Engineering Development</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DESIGN AND DEVELOPMENT	1	2021	4	2029
TEST AND EVALUATION	1	2021	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</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>S70: Personnel Recovery Support System (PRSS)</i>	-	1.554	2.591	0.591	-	0.591	0.637	0.644	0.651	0.658	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Personnel Recovery Support System (PRSS) consists of items including Personnel Recovery Devices (PRD) and other Personnel Recovery Support Equipment (PRSE) items that provide the capability to report and locate isolated Soldiers, forces and elements. Funding supports system research, development, testing, and evaluation of next-generation PRSS/PRSE items to enhance capability and provide a secure waveform with Low Probability of Intercept (LPI)/Low Probability of Detection (LPD) while operating in increasingly contested environments utilizing secure signals of opportunity that meet Army qualifications. It ensures continued successful interoperability within the relevant theaters of operations and the Continental United States (CONUS).

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

	FY 2023	FY 2024	FY 2025
Title: Personnel Recovery Systems	1.554	2.591	0.591
Description: The Personnel Recovery Support System (PRSS) consists of items including Personnel Recovery Devices (PRD) and other Personnel Recovery Support Equipment (PRSE) items that provide the capability to report and locate isolated Soldiers, forces and elements. Funding supports system research, development, testing, and evaluation of next-generation PRSS/PRSE items to enhance capability and provide a secure waveform with Low Probability of Intercept (LPI)/Low Probability of Detection (LPD) while operating in increasingly contested environments utilizing secure signals of opportunity that meet Army qualifications. It ensures continued successful interoperability within the relevant theaters of operations and the Continental United States (CONUS).			
FY 2024 Plans: Continues research, development, and evaluation and begins integration and testing of secure and classified components and hardware directly supporting Army personnel recovery requirements.			
FY 2025 Plans: Continues minimal integration and testing of the secure and classified components and hardware directly supporting personnel recovery requirements.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding decrease from FY 2024 to FY 2025 is due to completion of the PRSS1b PRD integration/solution of the secure mode.			
Accomplishments/Planned Programs Subtotals	1.554	2.591	0.591

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</i>

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• G01101: <i>Personnel Recovery Support System (PRSS)</i>	4.691	5.356	6.503	-	6.503	9.183	9.188	9.196	9.289	Continuing	Continuing

Remarks

D. Acquisition Strategy

The acquisition strategy for the PRSS/PRSE program describes the acquisition approach to procure, field, and support PRSS capabilities that involve executing program development efforts through contracts with industry and reimbursable support agreements with other Government agencies, labs, and Federally Funded Research and Development Centers. The acquisition strategy is based upon leveraging an existing product that meets the additional capabilities required. This approach is preferred for cost and schedule efficiency and lower technical risk. Additionally, there will be a focus on continuing development and testing of new waveforms and hardware to ensure successful interoperability for personnel recovery. This will also help in mitigating potential security compromises to the PRSS/PRSE program, to enhance the detection, identification, and recovery of lost or captured Soldiers during contingency or combat operations, the future program strategy will involve adapting PRSS/PRSE products to align with changing doctrine and concepts of operations (CONOPS). This strategy will ensure that the program remains effective and relevant in evolving operational environments. The overall cost, schedule, and technical risks for the program are assessed as low.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				S70 / Personnel Recovery Support System (PRSS)							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Administration	Allot	Various Organizations : Huntsville, Alabama	1.138	0.065		0.062		0.014		-		0.014	Continuing	Continuing	Continuing
Subtotal			1.138	0.065		0.062		0.014		-		0.014	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Personnel Recovery System Development Systems Engineering	MIPR	Various Organizations : Various Locations	11.596	0.710		1.688		0.384		-		0.384	Continuing	Continuing	Continuing
Subtotal			11.596	0.710		1.688		0.384		-		0.384	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR	Various Organizations : Various Locations	2.408	0.075		0.071		0.016		-		0.016	Continuing	Continuing	Continuing
Subtotal			2.408	0.075		0.071		0.016		-		0.016	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Testing/Operational Testing	MIPR	Various Organizations : Various Locations	3.509	0.704		0.770		0.177		-		0.177	Continuing	Continuing	Continuing
Subtotal			3.509	0.704		0.770		0.177		-		0.177	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</i>

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Personnel Recovery (PR) Development	[Redacted]																											
PR Component, Integration, and Testing	[Redacted]																											
PRD Secure Mode Upgrades	[Redacted]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Personnel Recovery (PR) Development	1	2022	4	2029
PR Component, Integration, and Testing	3	2022	4	2029
PRD Secure Mode Upgrades	3	2023	4	2029

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

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</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>VS5: Soldier Protective Equipment</i>	-	8.963	8.150	8.510	-	8.510	8.513	8.599	8.695	8.782	0.000	60.212
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funding in this project supports the Army's Cross Functional Teams (CFT) initiatives. It supports Engineering and Manufacturing Development (EMD) to include design integration and manufacturing of production representative articles, formal developmental testing / operational testing (DT/OT) and Soldier touchpoints, and continued development of SPS technologies transitioning from Project VS4. It leverages advancements in technology to continue improvements to the Army's Personal Protective Equipment (PPE) portfolio to include hard and soft body armor components such as Vital Torso Protection (VTP) and Torso and Extremity Protection (TEP), head protection components such as Integrated Head Protection System (IHPS) and Next Generation (NG) IHPS), Military Protective Eyewear systems and other personal protective equipment. This project will continue to support cross-service initiatives to increase commonality.

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

	FY 2023	FY 2024	FY 2025
<p>Title: Soldier Protective Equipment</p> <p>Description: Project VS5 (Soldier Protective Equipment) supports engineering and manufacturing development of Individual Soldier Ballistic Protection equipment. It will leverage advancements in technology to continue incremental improvements to Personal Protective Equipment (PPE).</p> <p>FY 2024 Plans: The VS5 project supports testing, design integration, human factors evaluations and continued development across the Personal Protective Equipment (PPE) portfolio. These items include hard and soft armor, helmets, hearing protection, and other personal protective equipment.</p> <p>In FY24, the project will procure test assets and conduct user evaluation on Body Armor and Head Protection capabilities that transition from the S&T community such as Novel Fabric for Torso Protection, Anti-Fog for integrated Eyewear Platform, Durable Anti-Fog Coatings, and Lens Longevity efforts to determine efficacy in operational environment. Procure test assets and conduct user evaluation on uniforms made from p-aramid fabric transition from S&T community that provides extremity protection against frag threats.</p> <p>Ongoing efforts in this project consist of testing blast and ballistic properties of current PPE after exposure to extreme storage and environmental conditions, which improve service life predictions and support repurposing efforts. The project will also continue improving test methodology for the Soldier Protection System (SPS), Next Generation Soldier Protection, and Non-Destructive</p>	8.963	8.150	8.510

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Test Equipment (NDTE), human factor evaluations focus on the female and small-statured soldier, and environmental and exposure testing (i.e., cold, tropical and jungle).</p> <p>FY 2025 Plans: The VS5 project supports testing, integration, human factors evaluations and continued development across the Personal Protective Equipment (PPE) portfolio. These items include hard and soft armor, head protection, hearing protection, and other personal protective equipment.</p> <p>The project will fund test support, surveillance, and continuous improvements on Soft and Hard Body Armor and Head Protection capabilities that transition from VS4 project such as Fragmentation Uniform Protective Materials, Test Method Optimization through Parallel Production Testing, Novel Defeat Mechanisms, Torso Plate Backing Evaluation, Improved Blunt Impact Protection, Integrated Head borne Systems, Anti-Fog for Integrated Eyewear Platform, and Lens Longevity efforts to determine efficacy in operational environment.</p> <p>Ongoing efforts in this project consist of test methods and measures emerging threat performance of current PPE after exposure to extreme storage and environmental conditions to address and eliminate critical gaps to existing test methods which improve test performance and service life predictions to support repurposing efforts. The project will also continue improving test methodology for the Soldier Protection System (SPS), Next Generation Soldier Protection, human factor evaluations focusing on the female and small-statured soldier, environmental and exposure testing (i.e., cold, tropical and jungle).</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increase in Soldier Protective Equipment portfolio is due implementation of Improved Blunt Impact Protection in FY 2025.</p>			
Accomplishments/Planned Programs Subtotals	8.963	8.150	8.510

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• VS4: <i>Soldier Protective Equipment</i>	4.815	7.991	5.801	-	5.801	7.810	7.891	7.980	8.060	Continuing	Continuing
• OMA - 121 - 121017000: <i>Soldier Modernization - Soldier Protection Systems</i>	-	-	-	-	-	-	-	-	-		

Remarks

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

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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D. Acquisition Strategy

Acquisition strategies for these programs vary in methods, and range from: 1) Material Change programs that result in engineering changes to existing systems to; 2) Traditional development programs that include an Engineering and Manufacturing Development phase ranging in duration from 12 to 48 months, depending on the level of design complexity and testing required.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				VS5 / Soldier Protective Equipment							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Allot	Various SSV : Fort Belvoir, VA	3.494	0.637		0.936		0.830		-		0.830	Continuing	Continuing	Continuing
Subtotal			3.494	0.637		0.936		0.830		-		0.830	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prototype Contracts	Various	Various : Various	36.843	1.431		2.150		2.350		-		2.350	Continuing	Continuing	Continuing
Prod Sys Engineering Spt	MIPR	Various : Various	14.031	2.815		2.330		2.090		-		2.090	Continuing	Continuing	Continuing
Subtotal			50.874	4.246		4.480		4.440		-		4.440	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Matrix Engineering Spt	MIPR	CCDC-SC : Natick, MA	7.774	0.485		0.635		0.698		-		0.698	Continuing	Continuing	Continuing
Subtotal			7.774	0.485		0.635		0.698		-		0.698	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Environmental/HFE	MIPR	Various DTC & OTC : Various DTC & OTC	14.957	1.315		0.559		0.650		-		0.650	Continuing	Continuing	Continuing
Surveillance Testing - Base Threat/Emerging Threat	TBD	TBD : TBD	5.127	2.280		1.540		1.892		-		1.892	Continuing	Continuing	Continuing
Subtotal			20.084	3.595		2.099		2.542		-		2.542	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Test and Qualify Improvements to SPS																												
Test and Qualify Improvements to SPS																												
Torso Protection Improvements																												
Torso Protection Improvements																												
Head Protection Improvements																												
Head Protection Improvements																												
Hard Armor Protection Improvements																												
Hard Armor Protection Improvements																												
SPS System Level Test Technology Insertions																												
SPS System Level Test Technology Insertions																												
Non-Destructive Test Equipment																												
Non-Destructive Test Equipment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Test and Qualify Improvements to SPS	1	2022	4	2029
Torso Protection Improvements	1	2022	4	2029
Head Protection Improvements	1	2022	4	2029
Hard Armor Protection Improvements	1	2022	4	2029
SPS System Level Test Technology Insertions	1	2022	4	2029
Non-Destructive Test Equipment	1	2023	4	2027