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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 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	20.807	27.681	24.284	-	24.284	31.528	31.861	32.215	32.540	Continuing	Continuing
CF2: <i>Integrated Soldier Systems Prototyping (SL CFT)</i>	-	3.291	3.688	3.642	-	3.642	3.897	3.938	3.982	4.022	0.000	26.460
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
S53: <i>Clothing And Equipment</i>	-	2.966	4.700	5.959	-	5.959	8.589	8.681	8.776	8.864	Continuing	Continuing
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
VS4: <i>Soldier Protective Equipment</i>	-	4.815	7.991	5.801	-	5.801	7.810	7.891	7.980	8.060	Continuing	Continuing

A. Mission Description and Budget Item Justification

A portion of this funding line is directly aligned to the Soldier Lethality Army Modernization Priority. This Program Element (PE), Soldier Systems - Advanced Development, manages the Soldier as a system to increase combat effectiveness, test and deliver tangible products that save Soldiers lives and improve combat capability. The PE provides funding for evaluating, developing, and testing emerging technologies and critical Soldier support systems to reduce technology risk.

Project CF2: Develop and maintain a PEO Soldier Futures Strategy ICW the Soldier Lethality Cross Functional Team and all DEVCOM Centers laying out a road-map for the Army of 2040 and beyond to execute Multi Domain Operations. Provide prototyping capabilities for evaluation and integration. Execute evaluation of new measurements and methodologies from the S&T community, execute system level evaluation environments, and support Soldier system modeling. Funding for this project aligns with the Army's priorities in support of the National Defense Strategy and is a priority of the Soldier Lethality Cross Functional Team.

Project ET8: Personnel Airdrop System improves Low Altitude and High-Altitude personnel parachutes and associated equipment to include canopy improvement 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.

Project S53: Funding is used to evaluate and integrate technologies and representative or prototype systems that help expedite Soldier Clothing and Individual Equipment technology transition from the laboratory to operational use. Efforts focus on proving out commonality across as broad a spectrum of users as possible to provide a modular, integrated uniform/clothing system from skin out and head-to-toe. It funds efforts to transition new technologies and domestically available fabrics with Flame Resistant (FR), moisture wicking, insect protection and camouflage technologies, including integration of fabrics appropriate for uniforms and equipment used in jungle/tropical and arctic environments. New technologies are identified to monitor health and improve Soldier survivability, reduce weight, and improve affordability, mobility and comfort in combat and training/administrative environments. Includes integration and interface on the Soldier system.

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>
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Project S54: The Small Arms Improvement Advanced Component Development and Prototypes (ACD&P) program provides funds to mature, demonstrate, test and evaluate emerging technology from Budget Activity (BA) 3 Program Element 0603607A Joint Service Small Arms Program (JSSAP) Project 627 Defense Advanced Research Projects Agency (DARPA), Department of Energy National Laboratories, Research Development & Engineering Centers (RDECs) and other domestic and foreign sources for small arms weapon systems and technology. Small arm weapon systems include weapons ranging up to 40 millimeter in caliber. Current and future efforts focus on improvements designed to enhance lethality, target acquisition and tracking, 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 the maturing of technology through testing and evaluation of sub-system or system prototypes which demonstrates lightweight materials, wear resistant/protective/anti-reflective coatings, observation/situational awareness improvements, human-systems integration, robotic armament capability, non-lethal capability, and equipment enhancements. Benefits include continuous improvements to small arms weapon systems, fire control equipment, optics, gun barrels, training devices, suppressors, component mounts, weapon mounts, and weapon/ammunition interface. Includes costs associated with efforts for integration and interface of products on Soldiers' head, body and weapons.

Project VS4: Supports efforts to evaluate integrated technologies and representative or prototype systems that help expedite Personal Protective Equipment (PPE) technology transition from the laboratory to operational use.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	23.444	27.681	29.981	-	29.981
Current President's Budget	20.807	27.681	24.284	-	24.284
Total Adjustments	-2.637	0.000	-5.697	-	-5.697
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.782	-			
• SBIR/STTR Transfer	-0.855	-			
• Adjustments to Budget Years	-	-	-5.697	-	-5.697

Change Summary Explanation

Decrease from the PB to the CB reflects anticipated transition of the Low Altitude Static Line Reserve Parachute Automatic Activation Device (SLRPAAD) from the Technology Maturation and Risk Reduction phase to the Engineering and Manufacturing Deployment phase, and the anticipated transition of efforts supporting improved hard armor to final production qualification and capability insertion.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>				Project (Number/Name) CF2 / <i>Integrated Soldier Systems Prototyping (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
CF2: <i>Integrated Soldier Systems Prototyping (SL CFT)</i>	-	3.291	3.688	3.642	-	3.642	3.897	3.938	3.982	4.022	0.000	26.460
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Develop a long term synchronized Soldier Integration Modernization Plan ICW the Close Combat Integration Enterprise (CCIE) for the Soldier, Squad and Company enablers to execute Multi-Domain Operations as part of an integrated Joint Force. Verify and maintain tools that provide Systems Engineering, Configuration Management, and Evaluations in a virtual and physical environment. Verify and maintain the Adaptive Squad Architecture (ASA) with emphasis on development of Interface Control Documents (ICDs), specifically to support the rapid integration of the Soldier Lethality Cross Functional Team (SL CFT) priority programs with all other dismounted Soldier equipment. Prototype capabilities for evaluation and integration. Execute evaluation of new measurements and methodologies from the S&T community, execute system level evaluation environments, and support Soldier system modeling. 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 Prototyping	3.291	3.688	0.449
<p>Description: Develop and maintain a PEO Soldier Modernization Plan ICW the Soldier Lethality Cross Functional Team and all DEVCOM Centers laying out a roadmap for the Army of 2040 and beyond to execute Multi Domain Operations. Provide ASA implementation capabilities for evaluation and integration. Execute Soldier Integration facility evaluation of new measurements and methodologies from the S&T community, execute system level evaluation environments, and support Soldier system modeling. Funding for this project aligns with the Army's priorities in support of the National Defense Strategy and is a priority of the Soldier Lethality Cross Functional Team.</p> <p>FY 2024 Plans: Continue to update the synchronized PEO Soldier futures plan and execute prototype integration demonstrations in support of Squad as an Integrated Combat Platform.</p> <p>FY 2025 Plans: Continue to update the synchronized PEO Soldier futures plan and execute prototype integration demonstrations in support of Squad as an Integrated Combat Platform.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>			

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) CF2 / <i>Integrated Soldier Systems Prototyping (SL CFT)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
In FY 2025 Integrated Soldier Systems Prototyping has been split for better fidelity and decrease from \$3.688 million to \$3.642 million reflects minor reduction to prototyping effort.				
<p>Title: Adaptive Squad Architecture (ASA)</p> <p>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, 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".</p> <p>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.</p> <p>ASA is responsible for the development of the Architecture Assessment Tool (AAT) - The AAT is the central ASA digital engineering tool that provides a Soldier Centered Design context in a virtual environment. AAT provides visualization of individual end items, and physical architecture (Head Body Weapon) of those items baselined by Soldier duty position (Squad Leader Team Leader Grenadier Rifleman Automatic Rifleman etc.) and those items authorized at the Squad Platoon Levels. The Visualization includes aggregated weight, an ability to compare Soldier configurations for analysis, and an ability to organize primary purposes of individual items into capabilities such as Lethality, Protection, Mobility and Mission Command. The AAT Soldier baselines are built from Army fielded (Modified Table of Organization and Equipment) items and they serve as a basis of comparison for OK Analysis data gathering events with operational units and other analysis.</p> <p>FY 2025 Plans: 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.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in FY2025 reflects funding aligned from Integrated Soldier Systems Prototyping to Adaptive Squad Architecture (ASA) for efforts to provide Small Units with decisive overmatch.</p>		-	-	0.995
<p>Title: Soldier Modernization Plan Development</p> <p>Description: Both a document and set of processes & systems that enable and facilitate an enduring transformative approach to modernizing Soldiers and Small Tactical Unit capabilities over time. Collaboratively created by, with and through the Close Combat Integration Enterprise (CCIE). Project Polaris provides shared understanding across the CCIE and ensures unity of effort,</p>		-	-	2.025

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
synchronization and prioritization of resources. Produced annually in synchronization with the Planning, Programming, Budgeting, and Executing (PPBE) process, this document is then operationalized and executed through the year.				
<p>FY 2025 Plans: 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.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in FY2025 reflects funding aligned from Integrated Soldier Systems Prototyping to Soldier Modernization Plan Development for Project Polaris efforts.</p>				
<p>Title: CACI SETA</p> <p>FY 2025 Plans: Fund support personnel to conduct mission requirements.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in FY2025 reflects funding aligned from Integrated Soldier Systems Prototyping to CACI SETA to support personnel to conduct mission requirements.</p>		-	-	0.055
<p>Title: ASA Test & Eval</p> <p>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, 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.</p> <p>FY 2025 Plans: Capture models in the ASA that identify specific connection points for development, 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.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		-	-	0.118

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Increase in FY2025 reflects funding aligned from Integrated Soldier Systems Prototyping to capture models in the ASA that identify specific connection points for development, integration and commonality of new systems.			
Accomplishments/Planned Programs Subtotals	3.291	3.688	3.642

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
• CF2: <i>Integrated Soldier Systems Prototyping (SL CFT)</i>	3.291	3.688	3.642	-	3.642	3.897	3.938	3.982	4.022	0.000	26.460

Remarks
The reduction in FY 2025 reflects minor reduction to prototyping effort.

D. Acquisition Strategy
PEO Soldier ICW the Soldier Lethality Cross Functional Team and DEVCOM Centers will develop a synchronized road-map of future programs to progress though S&T to programs of record to be developed, produced and fielded to the Army in support of Multi Domain Operations. In support of this Futures Strategy, execute component and system level evaluations in the Soldier Integration Facility and support Soldier system modeling.

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) CF2 / <i>Integrated Soldier Systems Prototyping (SL CFT)</i>
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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			
Adaptive Squad Architecture (ASA)	C/FFP	Various : Various	1.912	1.275	Jan 2023	1.135	Jan 2024	0.995	Jan 2024	-		0.995	Continuing	Continuing	Continuing
Soldier Modernization Plan Development	Option/CPFF	Natick ACC : Natick MA	-	0.900		0.945		2.025		-		2.025	0.000	3.870	-
Subtotal			1.912	2.175		2.080		3.020		-		3.020	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			
CACI SETA	TBD	APEO : Fort Belvoir	-	-		-		0.055		-		0.055	0.000	0.055	-
Subtotal			-	-		-		0.055		-		0.055	0.000	0.055	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			
ASA Test & Eval	C/FFP	Various : various	5.709	0.741	Jan 2023	1.196	Jan 2024	0.118	Jan 2024	-		0.118	Continuing	Continuing	Continuing
Soldier Integration Facility Evaluations https://pandr.altess.army.mil/ngPrf/src/ng1/img/caret-down.s	C/CPFF	Natick ACC : Natick MA	-	0.375		0.412		0.449		-		0.449	0.000	1.236	-
Subtotal			5.709	1.116		1.608		0.567		-		0.567	Continuing	Continuing	N/A

			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			7.621	3.291	3.688	3.642	-	3.642	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 / 4		R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>		Project (Number/Name) CF2 / <i>Integrated Soldier Systems Prototyping (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 Implementation	[Redacted]																											
Soldier Modernization Plan Development	[Redacted]																											
Soldier Integration Facility Evaluations	[Redacted]																											
	[Redacted]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) CF2 / <i>Integrated Soldier Systems Prototyping (SL CFT)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASA Implementation	2	2020	4	2029
Soldier Modernization Plan Development	1	2023	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 / 4				R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>				Project (Number/Name) ET8 / <i>Personnel Airdrop System 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
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
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. Project ET8, Personnel Airdrop System Development, improves Low Altitude and High Altitude personnel parachutes and associated equipment to include canopy improvement based on integration of new technology with the goal of enhancing the insertion capability and the safety of the airborne Soldier and increasing the performance, reliability, and durability of personnel airdrop equipment. This project will transition capabilities from our Science and Technology partners to increase performance and safety of Soldier equipment. It will continue to support cross-service initiatives to improve commonality.

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

	FY 2023	FY 2024	FY 2025
Title: Personnel Airdrop System Development	1.785	2.208	0.911
Description: Improve Low Altitude and High Altitude personnel parachutes and ancillary equipment that supports airborne operations to include canopy improvements based on integration of new technology with the goal of enhancing the insertion and safety of the airborne Soldier and increasing the performance, reliability, and durability of personnel airdrop equipment.			
FY 2024 Plans: Continue integration testing of the Low Altitude Static Line Reserve Parachute Automatic Activation Device (SLRPAAD) to mature technology of product to enter Developmental Testing (DT). Evaluate technology for next generation parachutes, detecting towed jumper within the parachute system, and parachutists' ancillary safety equipment.			
FY 2025 Plans: Continue to evaluate personnel parachute system enhancements and parachutists' ancillary safety equipment.			
FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in FY2025 funding for the anticipated transition of the Low Altitude Static Line Reserve Parachute Automatic Activation Device (SLRPAAD) from the Technology Maturation and Risk Reduction phase to the Engineering and Manufacturing Deployment phase.			
Accomplishments/Planned Programs Subtotals	1.785	2.208	0.911

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Appropriation/Budget Activity 2040 / 4		R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>			Project (Number/Name) ET8 / <i>Personnel Airdrop System 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>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>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	
• 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
• 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

Remarks

D. Acquisition Strategy

Programs pursue technology maturation and prototype development, culminating in the transition of mature technologies (Technology Readiness Level (TRL) 6-7) to system development and demonstration (SDD).

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) ET8 / <i>Personnel Airdrop System Development</i>
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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			
Developmental Contracts	C/FFP	Various : Various	1.347	0.824		0.780		0.250		-		0.250	2.588	5.789	-
Engineering Support	MIPR	DEVCOM-SC : Natick, MA	0.596	0.280		0.240		0.157		-		0.157	0.827	2.100	-
Subtotal			1.943	1.104		1.020		0.407		-		0.407	3.415	7.889	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 Management Support	Allot	PM SCIE : Belvoir	1.169	0.200		0.188		0.100		-		0.100	0.811	2.468	-
Subtotal			1.169	0.200		0.188		0.100		-		0.100	0.811	2.468	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	Various : Various	1.041	0.481		1.000		0.404		-		0.404	0.782	3.708	-
Subtotal			1.041	0.481		1.000		0.404		-		0.404	0.782	3.708	N/A

	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		4.153	1.785	2.208	0.911	0.911	5.008	14.065	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) ET8 / <i>Personnel Airdrop System 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
Evaluate Component and Subsystem Technologies	[Redacted]				[Redacted]																							
Low Altitude Static Line Reserve Parachute Automatic Act...	[Redacted]				[Redacted]																							
Airborne Insertion Enhancements	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Static Line Parachute System Enhancements	[Redacted]				[Redacted]				[Redacted]				[Redacted]															

Note
Airborne Insertion Enhancements includes the following: Towed Jumper Detection, Glide Technology, Situational Awareness Aids, and GPS Denied Navigation Aid.

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

Events	Start		End	
	Quarter	Year	Quarter	Year
Evaluate Component and Subsystem Technologies	1	2019	4	2023
Low Altitude Static Line Reserve Parachute Automatic Activation Device (SLRPAAD)	3	2020	4	2024
Airborne Insertion Enhancements	1	2024	4	2029
Static Line Parachute System Enhancements	1	2025	4	2027

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>				Project (Number/Name) S53 / <i>Clothing And 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
S53: <i>Clothing And Equipment</i>	-	2.966	4.700	5.959	-	5.959	8.589	8.681	8.776	8.864	Continuing	Continuing
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 to evaluate and integrate technologies and prototypes that expedite Product Manager Soldier Clothing and Individual Equipment (PdM SCIE) technology transitions from the laboratory to operational use. Efforts focus on achieving commonality across all services to provide footwear, uniforms and clothing systems consisting of all layers required to accommodate Warfighters in all environments resulting in integrated systems for the Airborne, Arctic, Arid, Jungle, and Temperate Soldier. PdM SCIE efforts include female Warfighter specific items and sizing. This effort funds the transition of new, improved technologies and domestically available fabrics with capabilities such as Flame Resistance (FR), moisture wicking, vector protection and innovative multi-service efforts to advance camouflage technologies to mitigate multi-spectral signature detection. This effort also funds integration of fabrics for uniforms and equipment for use in all environments. PdM SCIE will transition capabilities from our Science and Technology partners to increase performance of Warfighter clothing and equipment and identify emerging technologies to integrate advanced material capabilities into combat uniforms and equipment. Additional advances in existing technologies to improve survivability by focusing on reducing weight and improving performance, mobility and comfort. 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	2.208	3.410	3.450
Description: Develop and provide superior, integrated and sustainable uniforms and clothing for the Soldier in an evolving global security environment.			
FY 2024 Plans:			
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. Evaluate transitioned fabric and system designs that provide improved vector protection, enhanced concealment and identification capability, Flame Resistant (FR) protection and improved comfort for inclusion in tactical and environmental clothing. Focus on improvements for cold weather and extreme cold weather clothing and handwear. Transition to system development and demonstration government developed materials that meet Signature Management requirements, to include enhance Identification of Friend or Foe (IFF) and reduction of costs across all Services. Transition functional textiles to mitigate Ground Surveillance Radar (GSR) detection by opposing forces. Develop enhanced uniforms utilizing enhanced, domestically available FR fabrics. Transition materials that will improve breathability for dismounted Soldiers and reduce spectral and thermal signature to further mitigate detection. Investigate and evaluate e-textiles (fabric level). Transition materials that will protect against emerging microwave threats. Evaluate transitioned fabric and designs for the next			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S53 / <i>Clothing And Equipment</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>generation cold weather clothing system. Supports The Chief of Staff Army's directives resulting from the Army Uniform Board held twice annually to include upgrades to clothing bag items.</p> <p>FY 2025 Plans: Supports 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. Supports Army Chief of Staff directives resulting from the Army Uniform Board held twice annually to include upgrades to clothing bag items. Funds the Science and Technology transition of materials, including All Range Tactical Clothing and Arctic Mobility Solutions. Funds laboratory testing on improved base layer fabrics and updated base layer patterns using improved materials and common service sizing. Funds transition of solutions that will reduce spectral and thermal signature to further mitigate detection and improve survivability. Supports laboratory testing of materials for cold weather fuel handling garments. Identify and implement common design features in legacy Clothing.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increases between FY24 and FY25 due to accelerated integration of signature management fabrics.</p>				
<p>Title: Individual Equipment</p> <p>Description: Develop and provide superior, integrated and sustainable individual equipment for the Soldier in an evolving global security environment.</p> <p>FY 2024 Plans: 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. Perform laboratory testing on novel materials to support Cold Weather Equipment programs and enhanced load management systems. Evaluate current load carriage equipment to assess its ability to support the modernization of current individual weapons and situational awareness capabilities. Continue to optimize the capability of Load Carriage items to support modernization of weapons and tactical equipment. Evaluate new technology for the desalinization of salt water as part of the Individual Water Treatment Device program.</p> <p>FY 2025 Plans: 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. Design, develop, prototype, and transition load carriage and enhanced load management equipment components. Evaluate current load carriage equipment to assess its ability to support the modernization of individual weapons and situational awareness capabilities. Continue evaluation of improved water treatment technology. Supports laboratory testing of commercial Arctic Mobility Solutions.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		0.758	1.290	2.509

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S53 / <i>Clothing And Equipment</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Funding increases between FY24 and FY25 due to increase of efforts for transition of technologies that will provide improved water treatment.			
Accomplishments/Planned Programs Subtotals	2.966	4.700	5.959

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
• 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
• OMA - CFF-OMA 121018: OMA SCIE 121018	-	-	-	-	-	-	-	-	-		

Remarks

D. Acquisition Strategy

Programs pursue technology maturation and prototype development, culminating in the transition of mature technologies (Technology Readiness Level (TRL) 6-7) to Systems Development and Demonstration. This Project continues to exercise competitively awarded contracts using best value source selection procedures.

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S53 / <i>Clothing And 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	TBD	PM SCIE : Ft. Belvoir, VA	17.272	0.265		0.480		0.550		-		0.550	Continuing	Continuing	Continuing
Subtotal			17.272	0.265		0.480		0.550		-		0.550	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	MIPR	DEVCOM-SC : Natick, MA	19.964	0.785		1.110		1.397		-		1.397	Continuing	Continuing	Continuing
Development Contracts	C/FFP	Various : Various	39.111	0.565		0.973		-		-		-	0.000	40.649	-
Subtotal			59.075	1.350		2.083		1.397		-		1.397	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	MIPR	DEVCOM-SC : Natick, MA	10.130	0.415		0.653		1.365		-		1.365	Continuing	Continuing	Continuing
Subtotal			10.130	0.415		0.653		1.365		-		1.365	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 Test & Evaluation (DT&E)	MIPR	Various : Various	31.364	0.936		1.484		2.647		-		2.647	Continuing	Continuing	Continuing

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S53 / <i>Clothing And Equipment</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
UNIFORM CLOTHING																												
Flame Resistant Clothing Improvements																												
Improve Signature and Thermal Management																												
Cold Weather/ Extreme Cold Weather (CW/ECW) Clothing Imp..																												
Cold Weather/ Extreme Cold Weather (CW/ECW) Handwear																												
Novel Materials Development																												
Clothing Bag upgrades and evaluations																												
Arctic Fuel Handlers Clothing																												
INDIVIDUAL EQUIPMENT																												
Develop Water Treatment Device																												
Load Carriage																												
Arctic Mobility Dismounted																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S53 / <i>Clothing And Equipment</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
UNIFORM CLOTHING	1	2010	4	2028
Flame Resistant Clothing Improvements	1	2012	4	2024
Improve Signature and Thermal Management	2	2012	4	2029
Cold Weather/ Extreme Cold Weather (CW/ECW) Clothing Improvements	1	2019	4	2025
Cold Weather/ Extreme Cold Weather (CW/ECW) Handwear	1	2020	4	2024
Novel Materials Development	1	2020	4	2029
Clothing Bag upgrades and evaluations	1	2014	4	2029
Arctic Fuel Handlers Clothing	4	2025	4	2026
INDIVIDUAL EQUIPMENT	4	2015	4	2025
Develop Water Treatment Device	1	2022	4	2028
Load Carriage	1	2020	4	2028
Arctic Mobility Dismounted	2	2024	4	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>				Project (Number/Name) S54 / <i>Small Arms Improvement</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
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
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Small Arms Improvement Advanced Component Development and Prototypes (ACD&P) program provides funds to mature, demonstrate, test and evaluate emerging technology from Budget Activity (BA) 3 Program Element (PE) 0603607A Joint Service Small Arms Program (JSSAP) Project 627 Defense Advanced Research Projects Agency (DARPA), Department of Energy National Laboratories, Research Development & Engineering Centers (RDECs) and other domestic and foreign sources for small arms weapon systems and technology. Small Arms Improvement supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). Small Arms weapon systems include weapons ranging up to 40 millimeter in caliber, recoilless rifles and remote weapon stations. Current and future efforts focus on improvements designed to enhance lethality, target acquisition and tracking, 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 the maturing of technology through testing and evaluation of sub-system or system prototypes which demonstrates light weight materials, wear resistant/protective/anti-reflective coatings, observation/situational awareness improvements, human-systems integration, robotic armament capability, non-lethal capability, advanced laser protection for optics, and equipment enhancements. Benefits include continuous improvements to small arms weapon systems, remote weapon systems, fire control equipment, optics, gun barrels, training devices, suppressors, component mounts, weapon mounts, ancillary items and weapon/ammunition interface. Includes costs associated with efforts for integration and interface of products on Soldiers' head, body and weapons.

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

	FY 2023	FY 2024	FY 2025
Title: New Weapon Systems	2.191	1.000	1.000
Description: Development of new small arms weapon systems.			
FY 2024 Plans: Advanced Technologies for Machine Gun: Will conduct market research, evaluations, trade studies and assessments for new Medium Machine Gun technologies to address capability needs. These technologies may include, but are not limited to, novel recoil mitigation, alternative lightweight materials, barrel technologies, suppressor technologies, mounting and fire control interfaces. Will develop and build test fixture for evaluation of various weapons' recoil profiles to facilitate measuring operating mechanism kinematics and transmitted recoil.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>New Weapons and Enabling Technology Evaluation and Assessments: Will continue to perform initial and follow-on evaluations, assessments and integration of new weapons to include various new weapon system platforms.</p> <p>FY 2025 Plans: Will assess advanced machine gun technologies, hardware and prototypes developed under previous efforts. Will continue to conduct market research for novel technologies and/or weapon systems that will apply to draft Future Medium Machine Gun requirements. Will acquire and develop prototype hardware for test and experimentation against (currently notional) Future Medium Machine Gun requirements. Will continue to conduct evaluations, trade studies and assessments for new machine gun technologies to address capability needs. These technologies may include, but are not limited to, novel recoil mitigation, alternative lightweight materials, barrel technologies, suppressor technologies, mounting and fire control interfaces.</p>				
<p>Title: Small Arms Weapon Systems Enhancements</p> <p>Description: Enhancements and development of small arms weapon systems.</p> <p>FY 2024 Plans: Small Business Innovative Research (SBIR) Enhancements will continue future efforts to focus on improvements designed to enhance lethality, target acquisition and tracking, fire control, training effectiveness and reliability of weapons.</p> <p>Enhanced System for Remote Weapon Stations & Kinetic Counter-Unmanned Aerial System (UAS) Weapons will begin development of enhanced sensor packages to improve target identification range. This program will also continue software development to integrate Counter Unmanned Aerial System (CUAS) kinetic defeat functionality into the CROWS Baseline Technology Refresh Software. In addition, it will continue development of hardware solutions to expand system power and data capacity to accommodate integration of future effectors.</p> <p>Power and Data Enabled Rail (PDER) (formerly Power and Data Integration onto Open Architecture Accessory Rails) will continue to integrate power and data capability in a negative space rail system. This will have potential applicability to systems such as, but not limited to Next Generation Squad Weapon-Rifle/Automatic Rifle, Precision Sniper Rifle, and Next Generation Medium/Heavy Machine Gun, Family of Weapon Sights and STORM.</p> <p>Weapon Enhancements for Improved Ammunition will continue to enhance weapons as ammunition is improved.</p> <p>New Weapons and Enabling Technology Evaluations and Assessments will continue to assess and evaluate selected capabilities and improvements for all current and legacy weapon systems.</p> <p>FY 2025 Plans:</p>		1.834	4.954	3.615

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Enhanced System for Remote Weapon Stations & Kinetic Counter-Unmanned Aerial System (UAS) Weapons will continue development of enhanced sensor packages to improve target identification range. This program will also continue software development to integrate Counter Unmanned Aerial System (CUAS) kinetic defeat functionality into the CROWS Baseline Technology Refresh Software. In addition, it will continue development of hardware solutions to expand system power and data capacity to accommodate integration of future effectors.</p> <p>New Weapons and Enabling Technology Evaluations and Assessments will continue to assess and evaluate selected capabilities and improvements for all current and legacy weapon systems.</p> <p>Will assess technologies and prototypes that provide direct fire capability to defeat defilade and point area targets while reducing collateral damage. Will continue to conduct market research for technologies and/or weapon systems that meet the draft requirements. Will acquire and develop prototype hardware for testing and conduct evaluations, trade studies and assessments for counter-defilade technologies to address capability needs.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding in FY25 reflects decreased requirements for fewer new weapons, enabling technology evaluations and assessments.</p>				
<p>Title: Combat Optics</p> <p>Description: Improvement of small arms combat optics.</p> <p>FY 2024 Plans: Advanced Combat Optics will continue to integrate current and emerging target acquisition component technologies such as, but not limited to rifle optics, binoculars and variable magnification spotting scopes. Will continue to evaluate state of the art advances in optical component technologies for inclusion in future combat optic products.</p> <p>FY 2025 Plans: Advanced Combat Optics will continue to integrate current and emerging target acquisition, sensing and ballistic calculation component technologies such as, but not limited to rifle optics, binoculars and variable magnification spotting scopes in support of legacy and emerging weapons. Will continue to evaluate state of the art advances in optical component technologies for inclusion in future combat optic products such as lightweight lens technology, lightweight housing material, advanced hazard and threat protection, and others.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		0.090	0.050	1.400

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Increase in funding in FY25 due to the inclusion of future combat optic components and technologies.				
<p>Title: Fire Control</p> <p>Description: Small arms fire control.</p> <p>FY 2024 Plans: Next Generation Weapons/Enhancements will continue to support technology development for future Next Generation Weapon variants addressing operational force needs for increased lethality, increased probability of hit, increased soldier acceptance, decreased signature, reduced recoil, reduced soldier aim error, and reduced engagement time. New weapons may be variants or enhancements of the Next Generation Squad Weapon Rifle (NGSW Rifle) and Next Generation Squad Automatic Rifle or new weapon platforms to fulfill other roles such as machine guns, sniper rifles, and others.</p> <p>Next Generation and Fire Control Technology Enhancements will continue to support technology integration with Next Generation Weapons addressing soldier aim error, engagement time, probability of hit, situational awareness, lethality, and soldier acceptance. Iterative prototyping will be utilized to develop component technologies to support future variants of the Next Generation Squad Weapon. Technology may include enhanced camera based technology, target tracking, automatic target detection, increased networked lethality, reduced signature, increased user acceptance, along with other emerging weapon, ammunition, and fire control technologies that will increase the lethality of the next generation squad weapons.</p> <p>Small Arms Fire Control Enhancements will continue research test and evaluation efforts on laser based wind sensors, proof-of-concept devices, and other optical designs for prototypes that incorporate fire control sensors and ballistic solver software and integration of sensor input and communication with ammunition for all small arms weapon platforms. The purpose of this effort is to evaluate downrange wind sensing technologies for incorporation into future fire control systems. Downrange wind sensing is the largest unmeasured variable remaining in ballistic calculation.</p> <p>FY 2025 Plans: Next Generation Weapons/Enhancements will continue to support technology development for future Next Generation Weapon variants addressing operational force needs for increased lethality, increased probability of hit, increased soldier acceptance, decreased signature, reduced recoil, reduced soldier aim error, and reduced engagement time. New weapons may be variants or enhancements of the Next Generation Squad Weapon Rifle (NGSW Rifle) and Next Generation Squad Automatic Rifle or new weapon platforms to fulfill other roles such as machine guns, sniper rifles, and others.</p> <p>Next Generation Fire Control Technology Enhancements will continue to support technology integration with Next Generation Weapons addressing soldier aim error, engagement time, probability of hit, situational awareness, lethality, and soldier acceptance. Iterative prototyping will be utilized to develop component technologies to support future variants of the Next</p>		3.785	3.040	1.906

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Generation Squad Weapon. Technology may include enhanced camera based technology, target tracking, automatic target detection, increased networked lethality, reduced signature, increased user acceptance, along with other emerging weapon, ammunition, and fire control technologies that will increase the lethality of the next generation squad weapons.</p> <p>Small Arms Fire Control Enhancements will continue research test and evaluation efforts on down range wind sensors, proof-of-concept devices, and other optical designs for prototypes that incorporate fire control sensors and ballistic solver software and integration of sensor input and communication with ammunition for all small arms weapon platforms. The purpose of this effort is to evaluate downrange wind sensing technologies for incorporation into future fire control systems. Downrange wind sensing is the largest unmeasured variable remaining in ballistic calculation.</p> <p>Will evaluate state of the art advances in optical component technologies for inclusion in future fire control systems such as lightweight lens technology, lightweight housing materials, munition programming, projectile tracking, advanced hazard and threat protection, and others.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in funding in FY25 due to the inclusion of future combat optic components and technologies for small arms fire control.</p>				
<p>Title: Research and Analysis</p> <p>Description: Research and analysis of small arms.</p> <p>FY 2024 Plans: Will continue Market Research and Benefit Analysis of new weapons and enabling technology evaluations and assessments to include, but not limited to 360 degree situational awareness, active stabilization, advanced kinetic weapons, low flying drone engagement, and other small arms research to include new technologies in emerging robotic and aerial armaments.</p> <p>FY 2025 Plans: Will continue research and analysis of new weapons and enabling technologies. Evaluations and assessments will include, but not limited to 360 degree situational awareness, active stabilization, advanced kinetic weapons, low flying drone engagement, and other small arms research to include new technologies in emerging robotic and aerial armaments.</p>		0.050	0.050	0.050
Accomplishments/Planned Programs Subtotals		7.950	9.094	7.971

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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 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</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>
• 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
• 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
• E06002: <i>NEXT GENERATION COMBAT ROUND</i>	52.623	35.896	38.140	-	38.140	70.227	70.219	70.218	70.922	Continuing	Continuing

Remarks
 In support of Small Arms Initial Capability and Capability Development Requirements, advanced technology of small arms weapon systems is transitioned from Joint Service Small Arms Program (JSSAP), Project 627, Program Element 0603607A, (Budget Activity 3) to Small Arms Improvement, Project S54, Program Element 0603827A, (Budget Activity 4). After the technology is demonstrated and/or validated, the program transitions to Infantry Support Weapons, Program Element 0604601A, (Budget Activity 5) for engineering and manufacturing development.

D. Acquisition Strategy
 Primary strategy is to study, develop, demonstrate and evaluate emerging technologies that ultimately lead to modernizing, enhancing and/or improving the small arms inventory.

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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 / 4				PE 0603827A / Soldier Systems - Advanced Development				S54 / Small Arms Improvement							
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	8.726	0.357	Mar 2023	0.354	Mar 2024	0.305	Mar 2025	-		0.305	Continuing	Continuing	Continuing
Subtotal			8.726	0.357		0.354		0.305		-		0.305	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
Hardware Development	MIPR	DEVCOM AC : Multiple	65.758	4.873	Jun 2023	5.640	Mar 2024	4.841	Mar 2025	-		4.841	Continuing	Continuing	Continuing
Subtotal			65.758	4.873		5.640		4.841		-		4.841	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	33.581	1.433	Mar 2023	1.600	Mar 2024	1.450	Mar 2025	-		1.450	Continuing	Continuing	Continuing
Subtotal			33.581	1.433		1.600		1.450		-		1.450	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 Test and Evaluation Centers, : Multiple	22.565	1.287	Jun 2023	1.500	Mar 2024	1.375	Mar 2025	-		1.375	Continuing	Continuing	Continuing
Subtotal			22.565	1.287		1.500		1.375		-		1.375	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 / 4			R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>				Project (Number/Name) S54 / <i>Small Arms Improvement</i>				
	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	130.630	7.950	9.094		7.971	-	7.971	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 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</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
NEW WEAPON SYSTEMS																												
Advanced Technologies for Machine Gun																												
New Weapons and Enabling Technology Evaluation and Ass																												
SMALL ARMS WEAPON SYSTEMS ENHANCEMENTS																												
Weapon Enhancements for Improved Ammunition																												
Smart Rail System Controller and Remote																												
Power and Data Enabled Rail (PDER)																												
Enhanced System for Remote Weapon Stations & Kinetic Co																												
Small Business Innovative Research																												
New Weapons and Enabling Technology Evaluations and Ass																												
COMBAT OPTICS																												
Advanced Combat Optics																												
FIRE CONTROL																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</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
Small Arms Fire Control Enhancements																												
<i>Formerly Small Arms Fire Control -Precision/Enhancements</i>																												
Next Generation and Fire Control Technology Enhancements																												
RESEARCH AND ANALYSIS																												
Research and Analysis of Small Arms																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) S54 / <i>Small Arms Improvement</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
NEW WEAPON SYSTEMS	1	2008	4	2029
Advanced Technologies for Machine Gun	1	2022	4	2029
New Weapons and Enabling Technology Evaluation and Assessments	1	2020	4	2029
SMALL ARMS WEAPON SYSTEMS ENHANCEMENTS	1	2008	4	2029
Weapon Enhancements for Improved Ammunition	1	2023	4	2024
Smart Rail System Controller and Remote	1	2021	4	2024
Power and Data Enabled Rail (PDER)	1	2021	4	2024
Enhanced System for Remote Weapon Stations & Kinetic Counter-UAS Weapons	1	2020	4	2029
Small Business Innovative Research	1	2015	4	2029
New Weapons and Enabling Technology Evaluations and Assessments	1	2020	4	2029
COMBAT OPTICS	1	2008	4	2027
Advanced Combat Optics	1	2020	4	2027
FIRE CONTROL	1	2008	4	2029
Small Arms Fire Control Enhancements	1	2017	4	2025
Next Generation and Fire Control Technology Enhancements	1	2019	4	2029
RESEARCH AND ANALYSIS	1	2012	4	2029
Research and Analysis of Small Arms	1	2015	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>				Project (Number/Name) VS4 / <i>Soldier Protective 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
VS4: <i>Soldier Protective Equipment</i>	-	4.815	7.991	5.801	-	5.801	7.810	7.891	7.980	8.060	Continuing	Continuing
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. This Project supports efforts to evaluate integrated technologies and representative or prototype systems that help expedite Personal Protective Equipment (PPE) technology transition from the laboratory to operational use. This project will transition capabilities from our Science and Technology partners to increase performance and safety of Soldier clothing and 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
Title: Soldier Protective Equipment (SPE)	4.815	7.991	5.801
Description: Effort to increase Warfighter survivability and mobility by optimizing Soldier protection while effectively managing all life cycle aspects of Personal Protective Equipment (PPE).			
FY 2024 Plans: The project will build on previously developed Technology/Maturation and Risk Reduction efforts across the PPE portfolio to support SPS requirements for lighter-weight ballistic materials with improved performance and manufacturing/ testing process improvements. In FY24, the program office will coordinate with the S&T community with efforts such as Novel Fabric for Torso Protection, Novel Defeat Mechanisms, Fragmentation uniform protective materials, Hearing Protection, Eye Protection Anti-Scratch Coating, and Improved Blunt Impact Protection.			
Product Management Office will evaluate current and future material, processing upgrades, and inform stakeholders of new operational capabilities. The program will continue developing conformal body armor and equipment to better accommodate female soldiers. In FY24, the program will continue efforts to update gender geometric anatomy into models, such as Operational Requirements-based Casualty Assessment, to inform designs, sizing, and variations development and improvements to support Department of Defense (DoD) Soldier protection needs.			
Hard Armor protection efforts will leverage technical testing on prototypes of single plate transitioning designed to defeat multiple threats with low weight. Head Protection efforts will include technology transitioning for anti-fog capability and its applicability on the battlefield and test eyewear film that reduces the occurrence of scratches and allows for self-healing of the lenses.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) VS4 / <i>Soldier Protective Equipment</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Overarching efforts for this program will be to maintain development initiatives to increase durability, shelf life, and functional service life of existing personal protective systems at the subsystem/ component level. Continue the development of improved measurement, evaluation, and testing processes for existing systems and emerging requirements. Program Office will develop, and test prototype assets built with materials and methodologies transitioning from S&T community.</p> <p>FY 2025 Plans: The VS4 project will build on previously developed Technology/Maturation and risk reduction efforts across the PPE portfolio to support SPS requirements. The project will facilitate the exploration and optimization of alternative materials for use against emerging Vital Toros Protection threats. Program office will explore other technologies such as higher performing ballistics defeating materials, new construction methods to address weight reduction and emerging threats. This Program office will facilitate test method refinement and improve surveillance testing capabilities to update lifecycle estimates, refine risk injury criteria, and continue mass reduction.</p> <p>Product Management Office will evaluate material and processing upgrades to inform stakeholders of new operational capabilities. The program will conduct technical testing on body armor designed to defeat multiple threats with low weight. Develop and test ceramic materials for improved hard armor ballistic performance to defeat emerging threats. Head Protection efforts will include testing eye protection and blunt force trauma capabilities transitioning from the Science and Technology community such as anti-scratch coating, active light technology that detects laser threats and improved blunt impact protection.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decrease from FY 2024 to FY 2025 is due to anticipated transition of efforts supporting improved hard armor to final production qualification and capability insertion.</p>			
Accomplishments/Planned Programs Subtotals	4.815	7.991	5.801

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>
• 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
• OMA - 121 - 12101700/	-	-	-	-	-	-	-	-	-		
RJSI: <i>Soldier Modernization</i>											
- <i>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 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) VS4 / <i>Soldier Protective Equipment</i>

D. Acquisition Strategy

Programs pursue technology transition from science and technology, maturation, and prototype development, culminating in the transition of mature technologies (Technology Readiness Levels (TRL) 6-7) to Engineering and Manufacturing Development. This Project continues to exercise competitively awarded contracts using best value source selection procedures where applicable.

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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 / 4				PE 0603827A / Soldier Systems - Advanced Development				VS4 / 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	PM SSV Various : Various	4.726	0.759		1.805		0.750		-		0.750	Continuing	Continuing	Continuing	
Subtotal			4.726	0.759		1.805		0.750		-		0.750	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	
Dev/Sys Engineering Spt	MIPR	CCDC-SC : Natick, MA	10.452	1.649		1.522		1.324		-		1.324	Continuing	Continuing	Continuing	
Dev/Integ Contracts	TBD	CCDC-SC : Natick, MA	82.298	0.798		2.700		1.862		-		1.862	Continuing	Continuing	Continuing	
Subtotal			92.750	2.447		4.222		3.186		-		3.186	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	
Ballistic/Blast/Nonballistic Testing	MIPR	Various : Various	20.165	1.609		1.964		1.865		-		1.865	Continuing	Continuing	Continuing	
Subtotal			20.165	1.609		1.964		1.865		-		1.865	Continuing	Continuing	N/A	
Project Cost Totals			117.641	4.815		7.991		5.801		-		5.801	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 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) VS4 / <i>Soldier Protective Equipment</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
SPS Technology Upgrade Insertion	[Redacted]																											
SPS Technology Upgrade Insertion	[Redacted]																											
VTP Technology Upgrade Insertion	[Redacted]																											
VTP Technology Upgrade Insertion	[Redacted]																											
TEP Technology Upgrade Insertion	[Redacted]																											
TEP Technology Upgrade Insertion	[Redacted]																											
Military Protective Eyewear Systems Improvement	[Redacted]																											
Military Protective Eyewear Systems Improvement	[Redacted]																											
Helmet Technology Upgrade Insertion	[Redacted]																											
Helmet Technology Upgrade Insertion	[Redacted]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603827A / <i>Soldier Systems - Advanced Development</i>	Project (Number/Name) VS4 / <i>Soldier Protective Equipment</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
SPS Technology Upgrade Insertion	1	2018	4	2029
VTP Technology Upgrade Insertion	1	2021	4	2029
TEP Technology Upgrade Insertion	1	2021	4	2029
Military Protective Eyewear Systems Improvement	1	2023	4	2029
Helmet Technology Upgrade Insertion	1	2021	4	2029