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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</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	-	19.237	11.333	29.132	-	29.132	9.739	14.058	10.082	10.182	Continuing	Continuing
EY2: <i>Integrated Soldier Power Data System - Core</i>	-	12.392	4.598	4.591	-	4.591	4.597	4.646	4.698	4.745	Continuing	Continuing
EY4: <i>Universal Battery Charger</i>	-	1.230	1.004	0.982	-	0.982	0.982	0.994	1.004	1.013	Continuing	Continuing
FK4: <i>Soldier Borne Sensor (SBS)</i>	-	1.621	1.656	1.637	-	1.637	4.160	8.418	4.380	4.424	0.000	26.296
LS2: <i>Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev</i>	-	-	-	16.363	-	16.363	-	-	-	-	0.000	16.363
S65: <i>Platoon Power Generator</i>	-	3.994	4.075	5.559	-	5.559	-	-	-	-	0.000	13.628

Note

PE 0604827A - has a New Start project listed as LS2 Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev.

A. Mission Description and Budget Item Justification

A portion of this funding line is a key enabler of the Army Modernization Priorities in support of the Small Unit Power (SUP) program.

Project EY2 - Integrated Soldier Power Data System - Core (ISPDS-C): Includes power and data managing/distribution devices, cutting-edge energy storage solutions, and power scavenging devices. These capabilities fill the power and energy gaps created by the increase in mission essential, Soldier portable power consumers, such as heads up displays, situational awareness displays, global positioning systems, weapon sensors, radios, night vision systems, and other devices. This project line develops power sources and power management solutions for the individual Soldier and squad for use in all operating environments. EY2 develops and evaluates capabilities to fill the power and energy requirements for critical Integrated Tactical Network Soldier worn systems to include tactical radios, assured position navigation and timing, Next Generation Squad Weapon, Nett Warrior, Enhanced Night Vision Goggle (all variants), and the Integrated Visual Augmentation System (IVAS). ISPDS-C systems will enable dismounted Soldiers and squads to execute their missions more efficiently, independently, for longer durations and with fewer battery resupplies while reducing the logistical and physical burden associated with moving fuel and batteries. This project also develops and integrates vehicular on-the-move charging.

Project EY4 - Universal Battery Charger (UBC): Fills the power and energy gap created by the increase in mission essential, Soldier portable power consumers, by providing a variety of charging solutions capable of providing power to handheld communication devices and military batteries to support mounted and dismounted formations. The UBC is suited for mounted and dismounted operations at the company level and below in multi-domain and austere operating environments. The system can draw power from wall outlets, vehicle power, generators, and solar power sources. The UBC enables dismounted Soldiers to execute their missions with fewer battery resupplies, thus reducing the logistical burden associated with moving fuel and batteries. The UBC capability allows dismounted Soldiers to operate independently for longer missions. The UBC fills the power and energy gap associated with bulk charging.

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>
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Project FK4 - Soldier Borne Sensor (SBS): The SBS is a small unmanned aerial vehicle. The SBS provides a near term solution to three Army War-fighting Challenges at the Infantry Squad level: develop situational understanding, conduct air-ground reconnaissance, and conduct joint combined arms maneuver. The system is simple to deploy and use to support the squad leader's decision-making process. The system allows Soldiers to obtain local situational awareness and understanding of their immediate surroundings while remaining in covered or concealed positions. The SBS program will be procured through multiple phases. We will use the funding in this project to develop, integrate, and qualify additional capabilities for each phase. Funding in this project aligns with the Army's priorities in support of the National Defense Strategy.

Project LS2 - Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev: This project focuses on the development, testing and qualification of Loitering Munitions in support of the Lethal Unmanned Systems (LUS) Directed Requirement (DR) approved on 09 December 2022. Infantry Brigade Combat Teams (IBCTs) lack adequate proportional organic capabilities at echelon to apply immediate, point, long range, and direct fire effects to destroy tanks, light armored vehicles, hardened targets, defilade, and personnel targets, while producing minimal collateral damage in complex terrain in all environmental conditions. The LUS DR dated 09 December 2022 addresses this capability gap with Low Altitude Stalking and Strike Ordnance (LASSO). The LUS DR is to rapidly deliver multiple tranches of capability using a "buy, try, decide" methodology to increase organic lethality in the IBCTs and inform future requirements. The funding contained within this budget line and project will conduct evaluations of technologies and capabilities in the loitering munitions capability space. Depending on the maturity of evaluated systems, limited developmental, safety and materiel release testing may be done to enable fielding of products in support of the LUS DR. FY25 funding in the amount of \$16.363 million is in support of the Pacific Defense Initiative.

S65 - Soldier Power: Soldier Power enables dismounted Soldiers to efficiently execute missions for longer durations by reducing the logistical burden associated with fuel and primary (disposable) batteries. Platoon Power Generation (PPG) - PM E2S2: This project supports the demonstration and development of a PPG. The Small Unit Power (SUP) PPG will provide small units with sufficient portable power to sustain Modified Table of Organizational Equipment (MTOE) unit power demand in support of 48 to 72 hour missions. It will be used for charging batteries and powering various types of Army communications and electronics devices.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	19.408	11.333	7.338	-	7.338
Current President's Budget	19.237	11.333	29.132	-	29.132
Total Adjustments	-0.171	0.000	21.794	-	21.794
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.248	-			
• SBIR/STTR Transfer	-0.419	-			
• Adjustments to Budget Years	-	-	21.794	-	21.794

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>
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Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: EY2: *Integrated Soldier Power Data System - Core*

Congressional Add: *Conformal wearable battery*

Congressional Add: *Wearable fuel cell development*

Congressional Add Subtotals for Project: EY2

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	5.000	-
	3.000	-
	8.000	-
	8.000	-

Change Summary Explanation

Funding increase for Platoon Power Generator development and initiates development activities for Lethal Semi-Autonomous Aerial Unmanned Systems.

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				Project (Number/Name) EY2 / <i>Integrated Soldier Power Data System - Core</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
EY2: <i>Integrated Soldier Power Data System - Core</i>	-	12.392	4.598	4.591	-	4.591	4.597	4.646	4.698	4.745	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Integrated Soldier Power Data System - Core (ISPDS-C) includes power and data managing/distribution devices, cutting-edge energy storage solutions, Soldier-worn power generation (fuel cell), and power scavenging devices. These capabilities fill the power and energy gaps created by the increase in mission essential, Soldier portable power consumers, such as heads up displays, situational awareness displays, global positioning systems, weapon sensors, radios, night vision systems, and other devices. This project line develops power sources and power management solutions for the individual Soldier and squad for use in all operating environments. EY2 develops and evaluates capabilities to fill the power and energy requirements for critical Integrated Tactical Network Soldier worn systems to include tactical radios, assured position navigation and timing, Next Generation Squad Weapon, Nett Warrior, Enhanced Night Vision Goggle (all variants), and the Integrated Visual Augmentation System (IVAS). ISPDS-C systems will enable dismounted Soldiers and squads to execute their missions more efficiently, independently, for longer durations and with fewer battery resupplies while reducing the logistical and physical burden associated with moving fuel and batteries. This project also develops and integrates vehicular on-the-move charging.

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

	FY 2023	FY 2024	FY 2025
Title: Test and Evaluation	0.160	0.943	1.531
Description: Test and validate power and energy solutions from new battery chemistries, fuel cells, and scavenging devices and integrating the solutions using common interfaces with the Power and Data Hub and Squad Power Manager.			
FY 2024 Plans: Continue to develop and test new power distribution technology, characterize Soldier peripherals, improve current power source chemistries, and improve protective materials and integrate into functional battery packs and pouches.			
FY 2025 Plans: Continue to develop and test new power distribution technology, characterize Soldier peripherals, improve current power source chemistries, and improve protective materials and integrate into functional battery packs and pouches.			
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 Increase reflects the shift of development efforts to evaluation and testing as well as the requirement to support user evaluation events.			
Title: System Engineering & Program Management	0.909	0.601	0.605

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) EY2 / <i>Integrated Soldier Power Data System - Core</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: Conduct system engineering and project management for ISDPS-C efforts and power characterization efforts.</p> <p>FY 2024 Plans: Continue to conduct system engineering, project management, and additional research and development center power characterization studies for dismounted Soldier equipment and ISPDS-C efforts.</p> <p>FY 2025 Plans: Continue to conduct system engineering, project management, and additional research and development center power characterization studies for dismounted Soldier equipment and ISPDS-C efforts.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 increase reflects minor adjustments to program management costs.</p>			
<p>Title: ISPDS-C/CWB Capability Improvements Integration</p> <p>Description: Evaluate higher energy density power, alternative energy solutions and improved power data management (e.g. improved battery chemistry, charging on the move development, Soldier worn power generation).</p> <p>FY 2024 Plans: Continued integration of alternative power technologies and higher energy density batteries and cells for the dismounted Soldier.</p> <p>FY 2025 Plans: Continued integration of alternative power technologies and higher energy density batteries and cells for the dismounted Soldier.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 decrease reflects a slight reduction in efforts pursuing ISPDS-C and CWB improvements and integration efforts.</p>	2.155	2.291	2.055
<p>Title: Develop alternative CWB sources.</p> <p>Description: Develop alternative CWB sources.</p> <p>FY 2024 Plans: Continue to develop and evaluate incremental improvements in alternative power storage technologies to increase overall power and energy capacity.</p> <p>FY 2025 Plans: Continue to develop and evaluate incremental improvements in alternative power storage technologies to increase overall power and energy capacity.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>	1.168	0.763	0.400

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) EY2 / <i>Integrated Soldier Power Data System - Core</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 decrease represents a realignment of efforts and priorities.			
Accomplishments/Planned Programs Subtotals	4.392	4.598	4.591

	FY 2023	FY 2024
Congressional Add: Conformal wearable battery <i>FY 2023 Accomplishments:</i> Funding will be used for the development of advanced battery technology in support of Conformal Wearable Battery program.	5.000	-
Congressional Add: Wearable fuel cell development <i>FY 2023 Accomplishments:</i> Funding will be used for the development of wearable fuel cell technologies to reduce size, weight, and manufacturing complexity.	3.000	-
Congressional Adds Subtotals	8.000	-

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
• R08090: <i>Integrated Soldier Power Data System - Core</i>	3.826	6.703	7.690	-	7.690	6.348	6.351	6.358	6.420	0.000	43.696

Remarks

D. Acquisition Strategy
Pursue a variety of Soldier power products under full and open competition. Initiatives range from Commercial-Off-The-Shelf (COTS) solutions to developmental efforts. The type of solicitation depends on the maturity of the technology. The power initiatives will be evaluated through scheduled lab and/operational test and evaluation events, and if successful, selected for procurement and subsequent fielding and sustainment. The acquisition strategy varies by product. For example, the CWB acquisition strategy consists of two phases: Phase one includes the purchase and evaluation of test articles. Phase two establishes an Indefinite Delivery Indefinite Quantity (IDIQ) contract through the Army Contracting Command (ACC) which maximizes competition to transition to 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 0604827A / Soldier Systems - Warrior Dem/Val				EY2 / Integrated Soldier Power Data System - Core								
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	
System Engineering & Program Management Support	MIPR	Various : Various	2.889	0.909	Aug 2023	0.601	Jan 2024	0.605	Jan 2025	-		0.605	Continuing	Continuing	-	
Subtotal			2.889	0.909		0.601		0.605		-		0.605	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	
ISPDS-C, CWB Capability Improvements Integration	MIPR	Various : Various	9.023	7.155	Sep 2023	2.291	Feb 2024	2.055	Mar 2025	-		2.055	Continuing	Continuing	-	
Develop alternative CWB sources	MIPR	Various : Various	3.963	4.168	Feb 2023	0.763	Feb 2024	0.400	Feb 2025	-		0.400	Continuing	Continuing	-	
Subtotal			12.986	11.323		3.054		2.455		-		2.455	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	Various : Various	2.688	0.160	Dec 2023	0.943	Mar 2024	1.531	Mar 2025	-		1.531	Continuing	Continuing	-	
Subtotal			2.688	0.160		0.943		1.531		-		1.531	Continuing	Continuing	N/A	
Project Cost Totals			18.563	12.392		4.598		4.591		-		4.591	Continuing	Continuing	N/A	
Remarks																
Cost elements may contain multiple awards. In such cases, the latest award date is listed.																

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>		Project (Number/Name) EY2 / <i>Integrated Soldier Power Data System - Core</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
Testing of Product Improvements	[Redacted]																											
Develop, Evaluate, and Update Battery Technology	[Redacted]																											
Increase Capacity/Alternate Power Source Development	[Redacted]																											
Charging on the move development, test integration	[Redacted]																											
Soldier Worn Power Development	[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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) EY2 / <i>Integrated Soldier Power Data System - Core</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Testing of Product Improvements	1	2020	4	2035
Develop, Evaluate, and Update Battery Technology	2	2020	4	2035
Increase Capacity/Alternate Power Source Development	4	2022	4	2035
Charging on the move development, test integration	4	2024	2	2026
Soldier Worn Power Development	1	2020	2	2026

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				Project (Number/Name) EY4 / <i>Universal Battery Charger</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
EY4: <i>Universal Battery Charger</i>	-	1.230	1.004	0.982	-	0.982	0.982	0.994	1.004	1.013	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Universal Battery Charger: Universal Battery Charger (UBC) fills the power and energy gap created by the increase in mission essential, Soldier portable power consumers, by providing a variety of charging solutions capable of providing power to handheld communication devices and military batteries to support mounted and dismounted formations. The UBC is suited for mounted and dismounted operations at the company level and below in multi-domain and austere operating environments. The system can draw power from wall outlets, vehicle power, generators, and solar power sources. The UBC enables dismounted Soldiers to execute their missions with fewer battery resupplies, thus reducing the logistical burden associated with moving fuel and batteries. The UBC capability allows dismounted Soldiers to operate independently for longer missions. The UBC fills the power and energy gap associated with bulk charging.

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

	FY 2023	FY 2024	FY 2025
<p>Title: Test & Evaluation</p> <p>Description: Develop and evaluate improved UBC products, including bulk charging and power on the move charging systems.</p> <p>FY 2024 Plans: Continue to evaluate improved UBC products, including bulk charging, and integrate platform power on the move charging systems.</p> <p>FY 2025 Plans: Continue to evaluate improved UBC products, including bulk charging, and integrate platform power on the move charging systems.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The FY 2025 decrease reflects a minor change in the effort.</p>	1.005	0.735	0.705
<p>Title: System Engineering & Program Management</p> <p>Description: Description: Conduct system engineering and project management for UBC efforts.</p> <p>FY 2024 Plans: Conduct systems engineering, project management, and logistics management for UBC product line.</p> <p>FY 2025 Plans:</p>	0.225	0.269	0.277

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) EY4 / <i>Universal Battery Charger</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Conduct systems engineering, project management, and logistics management for UBC product line.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> The FY 2025 increase reflects minor adjustments to the program management costs.			
Accomplishments/Planned Programs Subtotals	1.230	1.004	0.982

C. Other Program Funding Summary (\$ in Millions)											
			FY 2025	FY 2025	FY 2025						Cost To
Line Item	FY 2023	FY 2024	Base	OCO	Total	FY 2026	FY 2027	FY 2028	FY 2029	Complete	Total Cost
• R09103: <i>Universal Battery Charger</i>	9.208	9.264	7.594	-	7.594	7.334	7.339	7.346	7.420	0.000	55.505

Remarks

D. Acquisition Strategy

Contracts will be awarded to test, evaluate, and procure the next generation battery chargers to meet the increased power demand on the Soldier. The PM will initiate efforts to establish a new competitively awarded multiple award IDIQ contract.

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) EY4 / <i>Universal Battery Charger</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			
System Engineering/ Program Management Support	MIPR	Various : Various	0.877	0.225	Mar 2023	0.269	Jan 2024	0.277	Feb 2025	-		0.277	Continuing	Continuing	-
Subtotal			0.877	0.225		0.269		0.277		-		0.277	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			
Test & Evaluation	MIPR	Various : Various	5.198	1.005	Aug 2023	0.735	Mar 2024	0.705	Mar 2025	-		0.705	Continuing	Continuing	-
Subtotal			5.198	1.005		0.735		0.705		-		0.705	Continuing	Continuing	N/A

Remarks
Cost increase from FY 2024 to FY 2025 is due to project convergence activities.

	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	6.075	1.230	1.004	0.982	-	0.982	Continuing	Continuing	N/A

Remarks
Cost elements may contain multiple awards. In such cases, the latest award date is listed.

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) EY4 / <i>Universal Battery Charger</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
Battery charger performance improvements	[Redacted]																											
UBC vehicle integration	[Redacted]																											
Evaluation of modernized battery chargers	[Redacted]																											
UBC Power 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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) EY4 / <i>Universal Battery Charger</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Battery charger performance improvements	1	2022	4	2031
UBC vehicle integration	2	2022	4	2032
Evaluation of modernized battery chargers	3	2022	4	2031
UBC Power Upgrades	1	2027	4	2029

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				Project (Number/Name) FK4 / <i>Soldier Borne Sensor (SBS)</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
FK4: <i>Soldier Borne Sensor (SBS)</i>	-	1.621	1.656	1.637	-	1.637	4.160	8.418	4.380	4.424	0.000	26.296
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project FK4 - Soldier Borne Sensor (SBS): The SBS is a small unmanned aerial vehicle. The SBS provides a near term solution to three Army War-fighting Challenges at the Infantry Squad level: develop situational understanding, conduct air-ground reconnaissance, and conduct joint combined arms maneuver. The system is simple to deploy and use to support the squad leader's decision-making process. The system allows Soldiers to obtain local situational awareness and understanding of their immediate surroundings while remaining in covered or concealed positions. The SBS program will be procured through multiple phases. We will use the funding in this project to develop, integrate, and qualify additional capabilities for each phase. Funding in this project aligns with the Army's priorities in support of the National Defense Strategy.

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

	FY 2023	FY 2024	FY 2025
Title: Soldier Borne Sensor (SBS)	1.621	1.656	1.637
Description: The SBS provides the squad a "quick look" capability providing Situational Awareness (SA).			
FY 2024 Plans: This program will complete the development and testing of Phase 2 systems. This program will continue to incorporate and test advanced obstacle avoidance, autonomous behaviors, edge processing, Robotics and Autonomous Systems - Air (RAS-A) interoperability, and novel battery chemistries. The program will continue to integrate S&T portfolio work on efficient target detection, and to integrate SBS with systems such as Enhanced Night Vision Goggle - Binocular (ENVG-B) and Integrated Visual Augmentation System (IVAS).			
FY 2025 Plans: This program will continue to develop and test Phase 2 systems. This program will continue to incorporate and test advanced obstacle avoidance, autonomous behaviors, edge processing, Robotics and Autonomous Systems - Air (RAS- A) interoperability, novel battery chemistries, and other emerging requirements. The program will continue to integrate Science and Technology (S&T) portfolio work on efficient target detection, and integrate SBS with systems such as Nett Warrior, Enhanced Night Vision Goggle - Binocular (ENVG-B) and Integrated Visual Augmentation System (IVAS).			
FY 2024 to FY 2025 Increase/Decrease Statement: The decrease in funding from FY 2024 to FY 2025 represents minor changes to the program efforts.			
Accomplishments/Planned Programs Subtotals	1.621	1.656	1.637

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) FK4 / <i>Soldier Borne Sensor (SBS)</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>
• W63798: <i>Soldier Borne Sensor (SBS)</i>	20.376	22.565	22.001	-	22.001	-	-	12.757	12.883	Continuing	Continuing

Remarks

D. Acquisition Strategy

The program will evaluate potential improved phase 2 systems as well as options to fund hardware and software developments that support advanced autonomy and interoperability in FY25 and beyond.

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) FK4 / <i>Soldier Borne Sensor (SBS)</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 Admin (PMA)	MIPR	Various : Various	0.279	0.039	Sep 2023	0.080	Jan 2024	0.060	Sep 2025	-		0.060	0.000	0.458	-
Subtotal			0.279	0.039		0.080		0.060		-		0.060	0.000	0.458	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			
Phase 2 Prototype	C/FFP	Vantage Robotics : San Leandro, CA 95577	2.148	0.528	Jul 2023	0.322	Feb 2024	-		-		-	0.000	2.998	2.534
Phase 2 Prototype	C/FFP	Teledyne FLIR : Wilsonville, OR 97070	0.158	0.249	Jul 2023	0.322	Feb 2024	-		-		-	0.000	0.729	-
Phase 2 Production OTA Qual & Eval CLINS	TBD	TBD : TBD	-	-		-		0.750	Nov 2024	-		0.750	0.000	0.750	-
Autonomy and Interoperability Development and Integration	TBD	Various : Various	0.421	0.561	May 2023	0.134	Nov 2023	0.527	Jan 2025	-		0.527	0.000	1.643	-
Subtotal			2.727	1.338		0.778		1.277		-		1.277	0.000	6.120	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	Various	Various : Multiple	0.450	-		0.080	Nov 2023	-		-		-	0.000	0.530	-
Subtotal			0.450	-		0.080		-		-		-	0.000	0.530	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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) FK4 / <i>Soldier Borne Sensor (SBS)</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																																												
Phase 2 - Technology Improvements, Integration and Testing	Phase 2 - Improvements & Integration																																																																							
Phase 2 - Production Award (MS 1)																	1 Phase 2 (MS 1)																																																							
Phase 3 - Development																																					Phase 3 - Development, Integration & Testing																																			
Phase 3 - Production Award (MS 2)																																													2 Phase 3 (MS 2)																											
Phase 3 - System Technology Improvements and Integration																																																																		Phase 3 - Improvements & Integration						

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) FK4 / <i>Soldier Borne Sensor (SBS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Phase 2 - Technology Improvements, Integration and Testing	3	2020	4	2025
Phase 2 - Production Award (MS 1)	3	2024	3	2024
Phase 3 - Development	4	2025	1	2028
Phase 3 - Production Award (MS 2)	2	2028	2	2028
Phase 3 - System Technology Improvements and Integration	2	2028	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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>				Project (Number/Name) LS2 / <i>Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev</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
LS2: <i>Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev</i>	-	-	-	16.363	-	16.363	-	-	-	-	0.000	16.363
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev is a new start within the Soldier Systems - Warrior Dem/Val program in FY 2025.

A. Mission Description and Budget Item Justification

Project LS2 - Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev: This project focuses on the development, testing and qualification of Loitering Munitions in support of the Lethal Unmanned Systems (LUS) Directed Requirement (DR) approved on 09 December 2022. Infantry Brigade Combat Teams (IBCTs) lack adequate proportional organic capabilities at echelon to apply immediate, point, long range, and direct fire effects to destroy tanks, light armored vehicles, hardened targets, defilade, and personnel targets, while producing minimal collateral damage in complex terrain in all environmental conditions. The LUS DR dated 09 December 2022 addresses this capability gap with Low Altitude Stalking and Strike Ordnance (LASSO). The LUS DR is to rapidly deliver multiple tranches of capability using a "buy, try, decide" methodology to increase organic lethality in the IBCTs and inform future requirements. The funding contained within this budget line and project will conduct evaluations of technologies and capabilities in the loitering munitions capability space. Depending on the maturity of evaluated systems, limited developmental, safety and materiel release, testing may be done to enable fielding of products in support of the LUS DR.

FY25 funding in the amount of \$16.363 million is in support of the Pacific Defense Initiative.

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

	FY 2023	FY 2024	FY 2025
Title: Low Altitude Stalking and Strike Ordnance (LASSO)	-	-	16.363
Description: LASSO is intended to increase the lethality of the IBCT specifically against troops, armored vehicles, and tanks.			
FY 2025 Plans: Initiate evaluation of critical capabilities, assess vendor and market maturity, and conduct safety and qualification testing.			
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 is the first year of funds for the program.			
Accomplishments/Planned Programs Subtotals	-	-	16.363

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

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) LS2 / <i>Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev</i>

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

Remarks

D. Acquisition Strategy

The plan for the LUS DR is to use the Middle Tier of Acquisition - Rapid Fielding (MTA-RF) pathway to procure and field mature systems. The LUS program and requirement will be replaced by a formal program of record, beginning in FY 2026, with a Capability Development Document (CDD) currently in staffing.

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) LS2 / <i>Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev</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																																																																																				
Technology Evaluation																																																																																																																
Safety and Developmental Testing																																																																																																																
Milestone B																																													▲																																																																			
Engineering and Manufacturing Development (EMD) for Prog...																																																																																																																
Developmental Testing (DT) for Program of Record																																																																																																																
Soldier Touch Point (STP)																																																																																																	■															
Limited User Test (LUT)																																																																																																																

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) LS2 / <i>Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Technology Evaluation	1	2024	4	2025
Safety and Developmental Testing	2	2025	4	2025
Milestone B	2	2026	2	2026
Engineering and Manufacturing Development (EMD) for Program of Record	2	2026	1	2028
Developmental Testing (DT) for Program of Record	2	2026	4	2026
Soldier Touch Point (STP)	4	2026	4	2026
Limited User Test (LUT)	4	2027	4	2027

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) S65 / <i>Platoon Power Generator</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>S65: Platoon Power Generator</i>	-	3.994	4.075	5.559	-	5.559	-	-	-	-	0.000	13.628
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

S65-Platoon Power Generator- Small Business Innovative Research (SBIR) Phase III effort will not take place. Program Office is researching opportunities to increase competition in fuel cell technologies to meet solutions. A parallel effort to improve modified spark-ignited commercial-off-the-shelf (COTS) systems will reduce program risk and support SUP Soldier Power bridging solutions.

A. Mission Description and Budget Item Justification

Platoon Power Generation - PM E2S2: This project supports the demonstration and development of Platoon Power Generation (PPG). PPG will provide small units with portable power to sustain Modified Table of Organizational Equipment (MTOE) unit power demand in support of 48 to 72 hour missions. It will be used for charging batteries and powering various types of Army communications and electronics devices. It will provide sufficient power to recharge and power all Platoon equipment and fulfill residual power gaps at the Squad and Soldier level. The generator will provide Platoon power for charging batteries when away from vehicles in all Brigade Combat Teams (Stryker, Armor and Infantry), Rangers and Special Forces in austere environments.

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

	FY 2023	FY 2024	FY 2025
Title: S65-Platoon Power Generator	3.994	4.075	5.559
Description: Spark-ignited COTS Operational Life and Reliability Study (SCOLARS) will improve and increase Soldier-portable systems as a bridging solution, and utilization of open competition for development of fuel cell solutions.			
FY 2024 Plans: Optimize fuel cell prototype design based on user feedback and improve upon prototypes to prepare the system for test and evaluation.			
FY 2025 Plans: Begin engineering, manufacturing, and development of fuel cell power generation capabilities meeting PPG requirements.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase in funding from FY24-FY25 to begin engineering, manufacturing and development of the Platoon Power Generator and finalize improvements to modified COTS bridging solution.			
Accomplishments/Planned Programs Subtotals	3.994	4.075	5.559

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) S65 / <i>Platoon Power Generator</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>
• R08090: <i>Integrated Soldier Power Data System - Core</i>	3.826	6.703	7.690	-	7.690	6.348	6.351	6.358	6.420	0.000	43.696
• R09103: <i>Universal Battery Charger</i>	9.208	9.264	7.594	-	7.594	7.334	7.339	7.346	7.420	0.000	55.505
• EY2: <i>Integrated Soldier Power Data System - Core</i>	12.392	4.598	4.591	-	4.591	4.597	4.646	4.698	4.745	Continuing	Continuing
• EY4: <i>Universal Battery Charger</i>	1.230	1.004	0.982	-	0.982	0.982	0.994	1.004	1.013	Continuing	Continuing

Remarks

D. Acquisition Strategy

PEO CS/CSS Effort on the Platoon Power Generation - PM E2S2: Based on the delays and results of the Small Business Innovation Research (SBIR) Phase II contract from the Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Center in FY23, PM E2S2 will not conduct a SBIR Phase III action. In FY24, PM E2S2 will conduct the Spark-ignited COTS Operational Life and Reliability Study (SCOLARS) to improve and optimize modified spark-ignited Soldier-portable generators to support SUP Soldier Power bridging solutions. In FY25, an open and competitive contract vehicle will be used to begin development of the fuel cell power generation capabilities. The results of the contract, testing and soldier touch points will inform the Milestone C Low-Rate Initial Production decision in FY28.

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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 0604827A / Soldier Systems - Warrior Dem/Val				S65 / Platoon Power Generator							
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
Platoon Power Generation	Various	PM E2S2 : Fort Belvoir, VA	0.764	0.529	Jun 2023	0.750	Feb 2024	1.337	Oct 2024	-		1.337	Continuing	Continuing	Continuing
Subtotal			0.764	0.529		0.750		1.337		-		1.337	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
Platoon Power Generation	Various	Prototyping and engineering, manufacturing and development efforts : APG, MD; Contractor Sites	9.358	2.165	Sep 2023	1.415	Feb 2024	3.786	Jan 2025	-		3.786	Continuing	Continuing	Continuing
Subtotal			9.358	2.165		1.415		3.786		-		3.786	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
Platoon Power Generation	MIPR	Various : APG; Ft. Belvoir	3.419	-		0.410	Feb 2024	0.429	Oct 2024	-		0.429	Continuing	Continuing	Continuing
Subtotal			3.419	-		0.410		0.429		-		0.429	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
Platoon Power Generation	MIPR	Test and evaluation efforts : APG; Ft. Moore	1.340	1.300	Sep 2023	1.500	Feb 2024	0.007	Mar 2025	-		0.007	Continuing	Continuing	Continuing

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) S65 / <i>Platoon Power Generator</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
Initial system design and prototyping																												
Design optimization and improved prototypes																												
Fuel Cell EMD Task 1																												
Fuel Cell EMD Task 2																												
Fuel Cell EMD DT&E																												
Milestone C																												

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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 0604827A / <i>Soldier Systems - Warrior Dem/Val</i>	Project (Number/Name) S65 / <i>Platoon Power Generator</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Initial system design and prototyping	2	2023	2	2024
Design optimization and improved prototypes	3	2024	3	2025
Fuel Cell EMD Task 1	2	2025	1	2026
Fuel Cell EMD Task 2	2	2026	1	2027
Fuel Cell EMD DT&E	2	2027	4	2027
Milestone C	3	2028	3	2028