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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 0605038A / <i>Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite</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	-	-	-	7.886	-	7.886	13.801	13.807	-	-	0.000	35.494
<i>EQ7: NBC Reconnaissance Vehicle (NBCRV) Sensor Suite</i>	-	-	-	7.886	-	7.886	13.801	13.807	-	-	0.000	35.494

Note

Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite is a new start in FY 2025.

A. Mission Description and Budget Item Justification

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) provides maneuver formations the ability to conduct mounted Chemical Biological Radiological and Nuclear (CBRN) reconnaissance and surveillance. The NBCRV SSU will answer the commander's priority intelligence requirements & facilitate proactive risk-based decisions, to ensure freedom of action and maintain maneuver momentum in Large Scale Combat Operations. NBCRV SSU is an Aquisition Category (ACAT) II modification work order (MWO) effort to modernize the current NBCRV Sensor Suite to increase maintainability, reliability, maneuverability of the force, and standoff distance from the threat, via enhanced CBRN standoff capabilities & integrating onto robotics for manned and unmanned teaming.

B. Program Change Summary (\$ in Millions)

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	7.886	-	7.886
Total Adjustments	0.000	0.000	7.886	-	7.886
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	7.886	-	7.886

Change Summary Explanation

Increase due to Capability Set 2.2 (CS2.2) non-recurring engineering integration and testing activities in FY25-FY27.

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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 0605038A / Nuclear Biological Chemical / Reconnaissance Vehicle (NBCRV) Sensor Suite	Project (Number/Name) EQ7 / NBC Reconnaissance Vehicle (NBCRV) Sensor Suite
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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
EQ7: NBC Reconnaissance Vehicle (NBCRV) Sensor Suite	-	-	-	7.886	-	7.886	13.801	13.807	-	-	0.000	35.494
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

NBC Reconnaissance Vehicle (NBCRV) Sensor Suite is a new start within the Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite program in FY 2025.

A. Mission Description and Budget Item Justification

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) provides maneuver formations the ability to conduct mounted Chemical Biological Radiological and Nuclear (CBRN) reconnaissance and surveillance. The NBCRV SSU will answer the commander's priority intelligence requirements & facilitate proactive risk-based decisions, to ensure freedom of action and maintain maneuver momentum in Large Scale Combat Operations. NBCRV SSU is an Acquisition Category (ACAT) II modification work order (MWO) effort to modernize the current NBCRV Sensor Suite to increase maintainability, reliability, maneuverability of the force, and standoff distance from the threat, via enhanced CBRN standoff capabilities & integrating onto robotics for manned and unmanned teaming. In FY25, the program will complete integration of Capability Set 2.2 (CS2.2) Sensor Suite and initiate CS2.2 developmental and operational testing.

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

	FY 2023	FY 2024	FY 2025
Title: NBCRV SSU	-	-	7.886
FY 2025 Plans: Complete integration of Capability Set 2.2 (CS2.2) sensor suite, and initiate CS2.2 developmental and operational testing. Continue program office management and administration processes to include but not limited to program oversight, resource justification, budgeting and programming, milestone and schedule tracking.			
FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to Capability Set 2.2 (CS2.2) non-recurring engineering integration and testing activities in FY25-FY27			
Accomplishments/Planned Programs Subtotals	-	-	7.886

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

N/A

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605038A / <i>Nuclear Biological Chemical / Reconnaissance Vehicle (NBCRV) Sensor Suite</i>	Project (Number/Name) EQ7 / <i>NBC Reconnaissance Vehicle (NBCRV) Sensor Suite</i>

D. Acquisition Strategy

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) is an upgrade for the Stryker NBCRV. The Army Requirements Oversight Council (AROC) Review Board (ARB) decided on 1 FEB 2022 to continue a Modification Work Order (MWO) pathway for Capability Set 2.1 (CS2.1) (initial SSU capability) as a bridge to Capability Set 2.2 (CS2.2) (full SSU capability). The NBCRV SSU program received prototype CS2.1 systems via Other Transaction Authority (OTA) in March 2022, and will continue testing through December 2023, to inform a CS2.1 Materiel Release Decision in FY24. The NBCRV SSU program will receive CS2.2 systems in FY25, followed by testing in FY25 through FY27 to inform the CS2.2 Materiel Release Decision in FY27.

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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 0605038A / Nuclear Biological Chemical / Reconnaissance Vehicle (NBCRV) Sensor Suite	Project (Number/Name) EQ7 / NBC Reconnaissance Vehicle (NBCRV) Sensor Suite
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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			
Government Program Management	MIPR	JPEO CBRND : Edgewood, MD	-	-		-		0.767		-		0.767	0.000	0.767	-
Subtotal			-	-		-		0.767		-		0.767	0.000	0.767	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			
CS2.2 Integration Contract	C/FFP	TBD : TBD	-	-		-		5.116		-		5.116	0.000	5.116	-
Subtotal			-	-		-		5.116		-		5.116	0.000	5.116	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 Testing CS2.2	MIPR	Various : Various	-	-		-		2.003		-		2.003	0.000	2.003	-
Subtotal			-	-		-		2.003		-		2.003	0.000	2.003	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		-	-	-	7.886	-	7.886	0.000	7.886

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605038A / Nuclear Biological Chemical / Reconnaissance Vehicle (NBCRV) Sensor Suite	Project (Number/Name) EQ7 / NBC Reconnaissance Vehicle (NBCRV) Sensor Suite

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
Developmental Test and Evaluation - CS2.1	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
	CS2.1 - Component & System Level Development				Testing																							
Operational Test and Evaluation - CS2.1	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
					CS2.1 - Limited User Test (LUT)																							
Capability Drop - CS2.2	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
					CS2.2 - Design and Fabrication																							
Developmental Test and Evaluation - CS2.2	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
									CS2.2 - Component and System Level Development				Testing															
Operational Test and Evaluation - CS2.2	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
													CS2.2 - Initial Operational Test and Evaluation (IOT&E)															
FRP-Full Rate Production Decision - CS2.2	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
																	CS2.2 - FRP / Material Release Decision											

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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 0605038A / <i>Nuclear Biological Chemical / Reconnaissance Vehicle (NBCRV) Sensor Suite</i>	Project (Number/Name) EQ7 / <i>NBC Reconnaissance Vehicle (NBCRV) Sensor Suite</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Developmental Test and Evaluation - CS2.1	4	2021	3	2024
Operational Test and Evaluation - CS2.1	4	2023	1	2024
Capability Drop - CS2.2	4	2024	4	2025
Developmental Test and Evaluation - CS2.2	4	2025	2	2027
Operational Test and Evaluation - CS2.2	4	2026	1	2027
FRP-Full Rate Production Decision - CS2.2	3	2027	1	2028