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**Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	<b>R-1 Program Element (Number/Name)</b> PE 0607313A / Electronic Warfare Development
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	5.673	6.432	6.389	-	6.389	5.689	5.695	5.755	5.820	0.000	41.453
CE2: Prophet	-	5.673	6.432	6.389	-	6.389	5.689	5.695	5.755	5.820	0.000	41.453

**A. Mission Description and Budget Item Justification**

This Program Element encompasses operational system development for tactical Electronic Warfare (EW) terrestrial (ground) employment applications. The systems under this program provide the Army with the capability to detect, identify, locate, collect/process, report, and engage (disrupt, degrade or deny) hostile forces to prevent their effective use of communications & non-communications networks, counter-mortar/counter-battery radars, surveillance radars, electronically fused munitions and other enemy threats using the Electro-Magnetic Spectrum (EMS). Prophet enables integration, interoperability and force modernization with emerging capabilities in support of Multi-Domain Task Forces.

FY 2024 funding in the amount of \$6.389M funds the Prophet Enhanced efforts (Project CE2). Project CE2 supports the Prophet Enhanced Program of Record, the Army's current Terrestrial Signals Intelligence (SIGINT) system. Funding provides for development of relevancy efforts for state-of-the-art SIGINT exploitation to pace near peer and emerging enemy threat signals as well as engineering to mitigate component obsolescence. The primary mission of the Prophet Enhanced effort is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade enabling the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	5.673	6.432	6.524	-	6.524
Current President's Budget	5.673	6.432	6.389	-	6.389
Total Adjustments	0.000	0.000	-0.135	-	-0.135
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.135	-	-0.135

**Change Summary Explanation**

Decreased funding to support higher Army priorities.

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<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0607313A / <i>Electronic Warfare Development</i>	<b>Project (Number/Name)</b> CE2 / <i>Prophet</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
CE2: <i>Prophet</i>	-	5.673	6.432	6.389	-	6.389	5.689	5.695	5.755	5.820	0.000	41.453
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Project CE2 supports the Prophet Enhanced Program of Record, the Army's current fielded terrestrial Signals Intelligence (SIGINT)/Electronic Warfare Support system. Funds provide for development and integration of Signal of Interest (SOI); Technical Insertion engineering for Next Generation Signals; state-of-the-art SIGINT exploitation techniques to increase the capabilities of Prophet Enhanced; enabling the system to pace near peer; and emerging enemy threat signals. Additionally, funds provide for efforts to include engineering, development and testing to mitigate component obsolescence. The Prophet Enhanced is the tactical commander's organic ground-based SIGINT/Electronic Warfare Support system. Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations. It also incorporates product modification, integration, evaluation and demonstration events of equipment for rapid integration of Technical Insertions (TI) and product development to ensure operational relevance.

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

	FY 2022	FY 2023	FY 2024
<p><b>Title:</b> Program Management</p> <p><b>Description:</b> Engineering, technical and programmatic oversight of the development of next generation signals.</p> <p><b>FY 2023 Plans:</b> Funds will provide for continued matrix and contractor system engineering and program management support for the Prophet program.</p> <p><b>FY 2024 Plans:</b> Funds will provide for continued matrix and contractor system engineering and program management support for the Prophet program.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2024 level of effort anticipated to remain relatively stable.</p>	0.567	0.696	0.682
<p><b>Title:</b> Signal of Interest upgrades</p> <p><b>Description:</b> The Signal Environment that Prophet Systems exploit is constantly contested with evolving threats. This environment creates gaps in Prophet's ability to collect and exploit these signals. Prophet must integrate the latest emerging Intelligence Community (IC), commercial solutions and capabilities from other sources to remain relevant against these numerous, key, and high-priority emerging threats.</p>	2.553	2.868	2.854

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b><i>FY 2023 Plans:</i></b> Continuing development and integration of Next Generation SIGINT capabilities into the Prophet SIGINT Software (PS2). The new signals and libraries of signals address key exploitation gaps in the Prophet system's ability to collect against key tactical near peer signals and emerging threats.</p> <p><b><i>FY 2024 Plans:</i></b> Continuing development and integration of Next Generation SIGINT capabilities into the Prophet SIGINT Software (PS2). The new signals and libraries of signals address key exploitation gaps in the Prophet system's ability to collect against key tactical near peer signals and emerging threats.</p> <p><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> FY 2024 level of effort anticipated to remain relatively stable.</p>			
<p><b><i>Title:</i></b> Componnet Obsolescence Engineering</p> <p><b><i>Description:</i></b> Due to the highly technical nature of Prophet Enhanced, over the course of time, many components on the system are no longer produced or supported, which necessitates non-recurring engineering (NRE) to integrate and incorporate new and replacement parts.</p> <p><b><i>FY 2023 Plans:</i></b> Continuing obsolescence engineering for components on the Prophet Enhanced systems.</p> <p><b><i>FY 2024 Plans:</i></b> Continuing obsolescence engineering for components on the Prophet Enhanced systems.</p> <p><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> FY 2024 level of effort anticipated to remain relatively stable.</p>	2.553	2.868	2.853
<b>Accomplishments/Planned Programs Subtotals</b>	5.673	6.432	6.389

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2024</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To</b>	<b>Total Cost</b>
			<b>Base</b>	<b>OCO</b>	<b>Total</b>					<b>Complete</b>	
• BZ9751: <i>SPECIAL PURPOSE SYSTEMS</i>	3.739	9.224	4.169	-	4.169	6.695	6.722	6.726	6.732	0.000	44.007
<b>Remarks</b>											

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**D. Acquisition Strategy**

The Prophet Research and Development (R&D) Acquisition Strategy is structured to maintain operational relevancy of Prophet Enhanced systems in a dynamic threat environment while reducing risk and streamlining business and engineering processes. Contracting activities are to maintain SIGINT relevance and complete Technical Insertion (TI) to Prophet Enhanced systems to pursue the latest Signals of Interest and design against obsolescence. The Technical Insertion (TI) contract supports R&D and other developmental work.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0607313A / <i>Electronic Warfare Development</i>	<b>Project (Number/Name)</b> CE2 / <i>Prophet</i>
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<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	C/Various	PM Electronic Warfare & Cyber : APG, MD	-	0.365	Feb 2022	0.696	Nov 2022	0.682	Nov 2023	-		0.682	0.000	1.743	-
<b>Subtotal</b>			-	0.365		0.696		0.682		-		0.682	0.000	1.743	N/A

**Remarks**  
Efforts will be accomplished via a combination of Matrixed Government Support as well as Systems Engineering and Technical Assistance (SETA) via competitive contract #W15P7T-17-D-0100

<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Signal of Interest Upgrades	SS/CPFF	GD Mission Systems and Various Supporting Organizations : Scottsdale, AZ	-	2.654	Dec 2021	2.868	Dec 2022	2.854	Dec 2023	-		2.854	0.000	8.376	-
Component Obsolescence Engineering	SS/CPFF	GD Mission Systems and Various Supporting Organizations : Scottsdale, AZ	-	2.654	May 2022	2.868	Dec 2022	2.853	Dec 2023	-		2.853	0.000	8.375	-
<b>Subtotal</b>			-	5.308		5.736		5.707		-		5.707	0.000	16.751	N/A

**Remarks**  
Efforts will be accomplished via contract # W56KGY-17-D-0006 to ensure systems remain relevant against emerging enemy threat signals and that any components of the system that become obsolete or are no longer produced can be re-engineered.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	5.673	6.432	6.389	-	6.389	0.000	18.494	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>			<b>Date: March 2023</b>		
<b>Appropriation/Budget Activity</b> 2040 / 7		<b>R-1 Program Element (Number/Name)</b> PE 0607313A / <i>Electronic Warfare Development</i>		<b>Project (Number/Name)</b> CE2 / <i>Prophet</i>	

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
Prophet Enhanced Technical Insertion																												
Customer Testing (2023)																												
Customer Testing (2025)																												
Customer Testing (2027)																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Prophet Enhanced Technical Insertion	1	2020	3	2028
Customer Testing (2023)	2	2023	3	2023
Customer Testing (2025)	2	2025	3	2025
Customer Testing (2027)	2	2027	3	2027