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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0301112F / <i>Nuclear Planning and Execution System (NPES)</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	0.000	17.276	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.276
673768: <i>Nuclear Planning and Execution System (NPES)</i>	0.000	17.276	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.276
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
 In FY 2024, efforts in PE 0301112F, Nuclear Planning and Execution System (NPES), Budget Program 673768, transferred to PE 0304100F, Strategic Mission Planning and Execution System (SMPES), Budget Program 675029; aligning legacy nuclear command and control (NC2) PEs under a single PE to initiate SMPES integration efforts.

A. Mission Description and Budget Item Justification

NPES develops software to facilitate NC2 adaptive planning and execution at fixed and mobile sites in real time. NPES Legacy encompassed cyber related investments necessary for a successful operational application/system delivery, for fixed command centers, distributive sites, and mobile platforms. NPES Recapitalization (Recap) succeeded NPES Legacy and provides communication interfaces with software development, data management, software re-engineering and operations to include requirements validation and training.

This is a rapid software prototyping effort. This effort includes decomposing system, functional and non-functional requirements to design, build, and field a new NPES application software baseline via agile, DevOps, and user-centered design principles. Further, the effort includes developing written artifacts to document system / software engineering elements appropriate for an Agile/DevOps software development effort.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Nuclear Planning and Execution System capability. The use of such programmatic funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 \$0.000M was expended for civilian pay expenses in this program element and in FY24 \$0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	
Previous President's Budget	16.158	0.000	0.000	0.000	0.000	
Current President's Budget	17.276	0.000	0.000	0.000	0.000	
Total Adjustments	1.118	0.000	0.000	0.000	0.000	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	1.118	0.000	0.000	0.000	0.000	
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2023	FY 2024	FY 2025
Title: NPES Modernization				7.952	0.000	0.000
Description: The NPES program will use proven and mature software engineering, technologies, and design tenets to provide a modern, secure, interoperable, and reliable NC2 capability for U.S. Strategic Command and other users as appropriate.						
FY 2024 Plans: See PE 0304100F, SMPES						
FY 2025 Plans: See PE 0304100F, SMPES						
Title: Decision Support Service				9.324	0.000	0.000
Description: Product Development						
FY 2024 Plans: See PE 0304100F, SMPES						
FY 2025 Plans: See PE 0304100F, SMPES						
Accomplishments/Planned Programs Subtotals				17.276	0.000	0.000

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D. 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
• OPAF 03 Line Item 833140: <i>Strategic Command and Control</i>	0.216	-	-	-	-	-	-	-	-	0.000	0.216

Remarks

E. Acquisition Strategy

NPES will develop, test, and field a renewed NC2 capability for combatant commanders using an evolutionary acquisition approach with development contracts that are negotiated and awarded in a competitive environment. Additionally, select government agencies will be used to conduct relevant analyses and provide other required support. NPES will enhance Air Force Life Cycle Management Center (AFLCMC) agile software development, creating a proportionate savings in costs gained by an increased level of production. The increased level of production will enable developers to build and integrate software at the Top Secret level as opposed to paying to build duplicate capabilities at other government or contractor facilities.

This effort funds agile software development activities and a secure software development environment. Software development environment will meet classification/security regulations/criteria, which will promote competition.

The AFLCMC at Hanscom AFB, and the 55th Contracting Squadron at Offutt AFB will be the contracting authorities for NPES and provide necessary program management, contracts, legal, and financial management support.

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0301112F / Nuclear Planning and Execution System (NPES)	Project (Number/Name) 673768 / Nuclear Planning and Execution System (NPES)
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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			
Primary Development	Various	NG : Offutt AFB, NE	0.000	4.828	Dec 2022	-		-		-		-	0.000	4.828	-
DSS Prototype Development	C/T&M	NG : Offutt AFB, NE	0.000	6.379	Feb 2023	-		-		-		-	0.000	6.379	-
Subtotal			0.000	11.207		-		-		-		-	0.000	11.207	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			
DevOps Support	Various	Various : Offutt AFB, NE	0.000	1.199	Feb 2023	-		-		-		-	0.000	1.199	-
Technical Engineering Services	Various	Various : Offutt AFB, NE	0.000	0.628	Jun 2023	-		-		-		-	0.000	0.628	-
DSS DevOps Support	Various	TBD : Offutt AFB, NE	0.000	1.967	Apr 2023	-		-		-		-	0.000	1.967	-
DSS Engineering Support	SS/ Various	MITRE : Offutt AFB, NE	0.000	0.324	Jan 2023	-		-		-		-	0.000	0.324	-
Subtotal			0.000	4.118		-		-		-		-	0.000	4.118	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			
T&E	Various	Various : Offutt AFB, NE	0.000	0.078	Jan 2023	-		-		-		-	0.000	0.078	-
Subtotal			0.000	0.078		-		-		-		-	0.000	0.078	N/A

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

NPES Development																												
Continuous Product Improvement																												

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>NPES Development</i>				
Continuous Product Improvement	4	2023	3	2024