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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Office of the Secretary Of Defense **Date:** March 2023

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0505167D8Z I <i>Domestic Prepare Against WMD</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
Total Program Element	-	0.000	0.000	3.770	-	3.770	3.770	4.230	4.200	4.200	Continuing	Continuing
784: <i>Domestic Prepare Against WMD</i>	-	0.000	0.000	3.770	-	3.770	3.770	4.230	4.200	4.200	Continuing	Continuing

Note

New Start (Y/N): Yes

A. Mission Description and Budget Item Justification

As a FY 2024 new start, this program supports the Department's initiatives to Deter Aggression, Defend the Homeland, Provide Nuclear Deterrence, and Build Sustainable and Long-Term Advantage.

The Radiological and Nuclear (Rad/Nuc) Detection Gear Modernization and Procurement for the Joint Force research and development activities (RDAs) enhance DoD's capabilities to campaign across the domains of threats and spectrums of conflict by: improving our capability to operate in the Radiological and Nuclear environment – including in the information and early warning domain; reinforcing our own warfighting advantages by providing increased capability to detect and identify radiological and nuclear threats; and enhancing our interoperability and access to address acute forms of coercion. This program is specifically geared to provide improved rad/nuc detection, indications and identification capability to the warfighter and to upgrade obsolete equipment (2022 National Defense Strategy).

RDAs provide enhanced Rad/Nuc capabilities. The Domestic Prepare against WMD portfolio enables DoD to provide Joint force and National Guard capability development for radiological and nuclear (R/N) capability development, acquisition and modernization funding to prepare for or to respond to any emergency involving nuclear, and radiological events in the United States; will ensure DoD strategic direction aligns with the National Defense Strategy's priority for Homeland Defense; is a necessary action in the Homeland to improve resilience; and promotes integrated deterrence of WMD with state, local and other federal agencies.

The Domestic Prepare against WMD portfolio is executing along cohesive lines of effort (LOEs) designed to prepare the Joint Force for a Future Operating Environment in which adversary pursuit or possession of WMDs pose threats ranging from existential to tactical, and limit U.S. strategic choices.

The Office of the Secretary of Defense uses the Domestic Prepare against WMD portfolio to invest strategically in projects across the Military Services, Combatant Commands, and Defense Agencies. Funding is prioritized for projects that close Joint Force warfighter capability gaps. An annual investment strategy is used to meet emergent operational, and capability needs validated by the Joint Force and the National Guard Bureau, yielding new fielded capabilities within one to two years.

The Domestic Prepare against WMD portfolio: Systems Development and Demonstration program invests in maturation of prototypes; integration of technologies, systems and components; developmental and operational test and evaluation; and transition to fielded capabilities that improve capability to detect and identify radiological and nuclear threats. This program bridges the gap between basic research to accelerate and enable transition of technologies to fielded capabilities by leveraging significant science and technology (S&T) investments made by the Department of Defense, other Federal agencies, and industry.

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0505167D8Z / <i>Domestic Prepare Against WMD</i>
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This program funds labor, materials, and travel to support the requirements of this program, performed by a government agency or by private individuals or organizations under a contract with the government, for activities and acquisitions including RDT&E, assessments and analyses, research studies, education, and other activities related to capability development and fielding.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	3.770	-	3.770
Total Adjustments	0.000	0.000	3.770	-	3.770
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• New Start	-	-	3.770	0.000	3.770

Change Summary Explanation

FY 2024 New Start

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Office of the Secretary Of Defense										Date: March 2023		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0505167D8Z / Domestic Prepare Against WMD				Project (Number/Name) 784 / Domestic Prepare Against WMD			
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
784: Domestic Prepare Against WMD	-	0.000	0.000	3.770	-	3.770	3.770	4.230	4.200	4.200	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY 2024 New Start

A. Mission Description and Budget Item Justification

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The Radiological and Nuclear (Rad/Nuc) Detection Gear Modernization and Procurement for the Joint Force research and development activities (RDAs) enhance DoD's capabilities to campaign across the domains of threats and spectrums of conflict by: improving our capability to operate in the Radiological and Nuclear environment – including in the information and early warning domain; reinforcing our own warfighting advantages by providing increased capability to detect and identify radiological and nuclear threats; and enhancing our interoperability and access to address acute forms of coercion. This program is specifically geared to provide improved rad/nuc detection, indications and identification capability to the warfighter and to upgrade obsolete equipment (2022 National Defense Strategy).

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

	FY 2022	FY 2023	FY 2024
<p>Title: Domestic Prepare Against WMD</p> <p>Description: The Domestic Prepare Against WMD: Systems Development and Demonstration program invests in maturation of prototypes; integration of technologies, systems and components; developmental and operational test and evaluation; and transition to Rad/Nuc Defense fielded capabilities. Significant S&T investments in prototype development by the Department of Defense, other Federal agencies, and industry are leveraged, capitalizing on mature technologies to accelerate and enable transition to fielded capabilities. Resulting fielded capabilities protect the warfighter, support indications and early warning, command and control, defend vulnerabilities in networks, programs, facilities, and weapons systems; and enable the disablement or defeat of WMD and their delivery systems.</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> • Develop, transition, and field operational Rad/Nuc Detection, Indications and Early warning and Command Control capabilities to the Joint Force and the National Guard Bureau. • Partner with the Military Services and Defense Agencies to mature and transition advanced prototypes to fielded rad/nuc detection and identification capabilities. • Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable rad/Nuc Detection and identification capabilities under other classified projects. <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 new start. The FY 2024 funding increase provides resourcing of Research & Development projects for Rad/Nuc detection, and improves rad/nuc defense capabilities fielded to the joint force.</p>	-	-	3.770
Accomplishments/Planned Programs Subtotals	-	-	3.770

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

N/A

Remarks

N/A

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Office of the Secretary Of Defense **Date:** March 2023

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Product Development (\$ in Millions)				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			
• Develop, transition, and field operational Rad/Nuc Detection, Indications and Early warning and Command Control capabilities to the Joint Force and the National Guard Bureau.	C/TBD	TBD : TBD	-	-		-		1.280	Apr 2024	-		1.280	Continuing	Continuing	-
• Partner with the Military Services and Defense Agencies to mature and transition advanced prototypes to fielded rad/nuc detection and identification capabilities.	C/TBD	TBD : TBD	-	-		-		1.280	Apr 2024	-		1.280	Continuing	Continuing	-
• Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable rad/Nuc Detection and identification capabilities under other classified p	C/TBD	TBD : TBD	-	-		-		1.210	Apr 2024	-		1.210	Continuing	Continuing	-
Subtotal			-	-		-		3.770		-		3.770	Continuing	Continuing	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	-	3.770	-	3.770	Continuing	Continuing	N/A

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Office of the Secretary Of Defense		Date: March 2023
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0505167D8Z / <i>Domestic Prepare Against WMD</i>	Project (Number/Name) 784 / <i>Domestic Prepare Against WMD</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
• Develop, transition, and field operational Rad/Nuc Detection, Indications and Early warning and Command Control capabilities to the Joint Force and the National Guard Bureau.				
• Develop, transition, and field operational Rad/Nuc Detection, Indications and Early warning and Command Control capabilities to the Joint Force and the National Guard Bureau.	1	2024	4	2025
Partner with the Military Services and Defense Agencies to mature and transition advanced prototypes to fielded rad/nuc detection and identification capabilities.				
Partner with the Military Services and Defense Agencies to mature and transition advanced prototypes to fielded rad/nuc detection and identification capabilities.	1	2024	4	2025
• Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable rad/Nuc Detection and identification capabilities under other classified p				
• Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable rad/Nuc Detection and identification capabilities under other classified p	1	2024	4	2025