

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

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 Preparedness Against Weapons Of Mass Destruction</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
Total Program Element	0.000	0.000	3.770	-	-	-	-	-	-	-	Continuing	Continuing
784: <i>Domestic Prepare Against WMD</i>	0.000	0.000	3.770	-	-	-	-	-	-	-	Continuing	Continuing

Note

New Start (Y/N): No

Following FY 2024 the PE name "Domestic Prepare Against WMD" changed to "Radiological and Nuclear Defense Modernization System Development and Demonstration" and the PE number changed from 0505167D8Z to 0605755D8Z to more accurately reflect the prescribed purpose of the Program Element.

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.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense	Date: March 2024
---	-------------------------

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 Preparedness Against Weapons Of Mass Destruction</i>
--	--

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.

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.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.000	3.770	0.000	-	0.000
Current President's Budget	0.000	3.770	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

Following FY 2024 the PE name "Domestic Prepare Against WMD" changed to "Radiological and Nuclear Defense Modernization System Development and Demonstration" and the PE number changed from 0505167D8Z to 0605755D8Z to more accurately reflect the prescribed purpose of the Program Element.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0505167D8Z / <i>Domestic Preparedness Against Weapons Of Mass Destruction</i>	Project (Number/Name) 784 / <i>Domestic Prepare Against WMD</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
<i>784: Domestic Prepare Against WMD</i>	0.000	0.000	3.770	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Following FY 2024 the PE name "Domestic Prepare Against WMD" changed to "Radiological and Nuclear Defense Modernization System Development and Demonstration" and the PE number changed from 0505167D8Z to 0605755D8Z to more accurately reflect the prescribed purpose of the Program Element.

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 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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense	Date: March 2024
--	-------------------------

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0505167D8Z / <i>Domestic Preparedness Against Weapons Of Mass Destruction</i>	Project (Number/Name) 784 / <i>Domestic Prepare Against WMD</i>
--	--	---

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.

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.

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

	FY 2023	FY 2024	FY 2025
<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"> • Developed, transitioned, and fielded operational Rad/Nuc Detection, Identification, Early warning, and Command Control capabilities to the Joint Force and the National Guard Bureau. • Partnered with the Military Services and Defense Agencies to mature and transitioned advanced prototypes to fielded rad/nuc detection and identification capabilities. • Continued maturation of prototypes, systems, and components for test and evaluation by end-users and transitioned to fieldable rad/Nuc Detection and identification capabilities under other classified projects. • Continued development of Joint Incident Site Communications Capability Architecture for the National Guard CBRN Response Enterprise. <p>FY 2024 to FY 2025 Increase/Decrease Statement: Following FY 2024 the PE name "Domestic Prepare Against WMD" changed to "Radiological and Nuclear Defense Modernization System Development and Demonstration" and the PE number changed from 0505167D8Z to 0605755D8Z to more accurately reflect the prescribed purpose of the Program Element.</p>	-	3.770	-
Accomplishments/Planned Programs Subtotals	-	3.770	-

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

N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0505167D8Z / <i>Domestic Preparedness Against Weapons Of Mass Destruction</i>	Project (Number/Name) 784 / <i>Domestic Prepare Against WMD</i>

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

Remarks

N/A

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0505167D8Z / Domestic Preparedness Against Weapons Of Mass Destruction	Project (Number/Name) 784 / Domestic Prepare Against WMD
--	--	--

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			
• 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	-		-		-	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	-		-		-	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	-		-		-	Continuing	Continuing	-
Subtotal			-	-		3.770		-		-		-	Continuing	Continuing	N/A

Remarks
Following FY 2024 the PE name "Domestic Prepare Against WMD" changed to "Radiological and Nuclear Defense Modernization System Development and Demonstration" and the PE number changed from 0505167D8Z to 0605755D8Z to more accurately reflect the prescribed purpose of the Program Element.

	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	-	-	3.770	-	-	-	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0505167D8Z / <i>Domestic Preparedness Against Weapons Of Mass Destruction</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