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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 0305310D8Z / <i>CWMD Systems: System Development Demonstration</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	56.175	19.413	16.048	14.471	0.000	14.471	14.425	15.602	17.350	17.732	-	-
813: <i>CWMD Systems: System Development & Demonstration</i>	56.175	19.413	16.048	14.471	0.000	14.471	14.425	15.602	17.350	17.732	-	-

Note

New Start (Y/N): No

A. Mission Description and Budget Item Justification

This program supports the Department's initiatives to Deter Aggression, Defend the Homeland, Provide Nuclear Deterrence, and Build Sustainable and Long-Term Advantage.

The Countering Weapons of Mass Destruction (CWMD) Systems research and development activities (RDAs) enhance DoD's capabilities to campaign across the domains of threats and spectrums of conflict by: "improving our understanding of the operational environment – including in the information domain; sowing doubt among competitors that they would be able to achieve their objectives and conduct unattributed coercive actions; disrupting competitor actions that would afford them warfighting advantages; reinforcing our own warfighting advantages; and enhancing our interoperability and access to address acute forms of coercion." (2022 National Defense Strategy).

RDAs provide enhanced offensive Counterproliferation capabilities. The CWMD Systems portfolio enables DoD to prevent adversary development, acquisition, transfer, deployment, and use of weapons of mass destruction. Likewise, the portfolio's investments deliver capabilities to "take action against actors of concern and reduce access to WMD development pathways" and, "delays further development, degrades capabilities where possible, and, if necessary, prevents WMD use". (2023 DoD Strategy to Counter Weapons of Mass Destruction)

The CWMD Systems 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. These LOEs create unique options across the continuum of conflict, including exquisite tactical situational awareness, the ability to rapidly generate options, low visibility methods of maneuver, and the capability to employ immediate effects without diminishing future capabilities. These LOEs enable active campaigning to support Integrated Deterrence that mitigate risk to mission and risk to force.

The Office of the Secretary of Defense uses the CWMD Systems 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, yielding new fielded capabilities within one to two years.

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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 0305310D8Z / <i>CWMD Systems: System Development Demonstration</i>
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The CWMD Systems: 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 counter WMD proliferation. This program accelerates and enables transition of mature 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 Research, Development, Test & Evaluation (RDT&E), assessments and analyses, research studies, education, and other activities related to capability development and fielding.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	20.132	16.048	18.717	0.000	18.717
Current President's Budget	19.413	16.048	14.471	0.000	14.471
Total Adjustments	-0.719	0.000	-4.246	0.000	-4.246
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Transfer to PE 0603161D8Z	-	-	-4.246	0.000	-4.246
• Program Adjustments	-0.719	-	-	-	-

Change Summary Explanation

FY 2024 funding decrease result of transfer of Innovative Technologies project to DASD(NCB/NM) PE 0603161D8Z.

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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 0305310D8Z / CWMD Systems: System Development Demonstration				Project (Number/Name) 813 / CWMD Systems: System Development & Demonstration			
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
813: CWMD Systems: System Development & Demonstration	56.175	19.413	16.048	14.471	0.000	14.471	14.425	15.602	17.350	17.732	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

N/A

A. Mission Description and Budget Item Justification

The Countering Weapons of Mass Destruction (CWMD) Systems portfolio aligns with the National Defense Strategy objective of “dissuading, preventing, or deterring state adversaries and non-state actors from acquiring, proliferating, or using weapons of mass destruction.”

The CWMD Systems portfolio enhances warfighter lethality by developing capabilities to exploit and defeat critical nodes of nuclear, chemical, and biological weapons and ballistic missile programs and proliferation networks; and developing offensively-oriented capabilities to disrupt Weapons of Mass Destruction (WMD) proliferation networks and detect, disable, or defeat WMD and delivery systems. Investments result in capabilities fielded to the Joint Force, enabling it to reduce WMD threats and create options for the United States to prevent WMD use.

The Office of the Secretary of Defense uses the CWMD Systems 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, yielding new fielded capabilities within one to two years.

The CWMD Systems: 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 counter WMD proliferation. This program accelerates and enables transition of mature technologies to fielded capabilities by leveraging significant science and technology (S&T) investments made by the Department of Defense, other Federal agencies, and industry. Resulting fielded capabilities illuminate WMD networks; exploit vulnerabilities in networks, programs, facilities, and weapons systems; and disable or defeat WMD and their delivery systems.

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 2022	FY 2023	FY 2024
Title: P*813 / CWMD Systems: System Development & Demonstration	19.413	16.048	14.471

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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305310D8Z / CWMD Systems: System Development Demonstration	Project (Number/Name) 813 / CWMD Systems: System Development & Demonstration
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>Description: The CWMD Systems: 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 counter Weapons of Mass Destruction (WMD) proliferation. Significant Science and Technology (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 illuminate WMD networks; exploit vulnerabilities in networks, programs, facilities, and weapons systems; and disable or defeat WMD and their delivery systems.</p> <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> • Transitioned and fielded operational CWMD capabilities to US Special Operations Command. • Partnered with the Military Services and Defense Agencies to mature and transition advanced prototypes to fielded CWMD capabilities. • Delivered capabilities that enhanced Air Force Technical Applications Center (AFTAC) ability to support nuclear treaty monitoring and nuclear event detection. • Continued maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable CWMD capabilities under other classified projects. <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> • Develop, transition, and field operational CWMD capabilities to US Special Operations Command. • Partner with the Military Services and Defense Agencies to mature and transition advanced prototypes to fielded CWMD capabilities. • Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable CWMD capabilities under other classified projects. <p>FY 2023 to FY 2024 Increase/Decrease Statement: The FY 2024 funding decrease is representative of program adjustments to align with National Defense Strategy priorities.</p>			
Accomplishments/Planned Programs Subtotals	19.413	16.048	14.471

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

Remarks
N/A

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D. Acquisition Strategy

The Office of the Deputy Assistant Secretary of Defense for Threat Reduction and Arms Control (ODASD(TRAC)) establishes annual priorities based on national and the DoD strategies and senior leader guidance. Based on those priorities, TRAC solicits project proposals from Combatant Commands, Military Services, and Defense Agencies, and interagency partners. To be selected, a proposed project must have a validated requirement, an engaged requirement champion, a viable acquisition strategy, and a qualified program management office. A technology project must identify its starting and desired end-state Technology Readiness Level. Likewise, the end-user for any proposed project must demonstrate a long-term plan for acceptance and sustainment of a fieldable capability. Project period of performance is typically 12-24 months.

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

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305310D8Z / CWMD Systems: System Development Demonstration	Project (Number/Name) 813 / CWMD Systems: System Development & Demonstration
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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			
Engineering & manufacturing development of information systems & components	C/T&M	TBD : TBD	28.087	-		-		-		-		-	-	-	-
Systems development & demonstration, and initial operational test & evaluation	C/T&M	TBD : TBD	22.470	-		-		-		-		-	-	-	-
Program management support	C/T&M	TBD : TBD	5.618	-		-		-		-		-	-	-	-
Develop and transition fieldable CWMD capabilities to US Special Operations Command and its components	MIPR	USSOCOM : TBD	-	8.438	Jan 2022	8.586	Jan 2023	7.708	Jan 2024	-		7.708	-	-	N/A
Partner with the Services to develop advanced prototypes and fielded CWMD capabilities.	MIPR	TBD : TBD	-	3.257	Jan 2022	2.600	Jan 2023	2.302	Jan 2024	-		2.302	-	-	N/A
Deliver toolkits and applications that enhance Air Force Technical Applications Center (AFTAC) capabilities to support nuclear treaty monitoring and nuclear event detection.	MIPR	AFTAC : TBD	-	3.444	Jan 2022	2.744	Jan 2023	2.446	Jan 2024	-		2.446	-	-	N/A
Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable capabilities of other classified projects.	MIPR	TBD : TBD	-	4.274	Jan 2022	2.118	Jan 2023	2.015	Jan 2024	-		2.015	-	-	N/A
Subtotal			56.175	19.413		16.048		14.471		-		14.471	-	-	N/A

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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			

Remarks
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	56.175	19.413	16.048	14.471	-	14.471	-	-	N/A

Remarks
NA

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Office of the Secretary Of Defense **Date:** March 2023

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Develop and transition fieldable Countering Weapons of Mass Destruction (CWMD) capabilities to US Special Operations Command and its components</i>				
Develop and transition fieldable CWMD capabilities to US Special Operations Command and its components	2	2022	4	2026
<i>Partner with the Services to develop advanced prototypes and fielded CWMD capabilities.</i>				
Partner with the Services to develop advanced prototypes and fielded CWMD capabilities.	2	2022	4	2026
<i>Deliver toolkits and applications that enhance Air Force Technical Applications Center (AFTAC) capabilities to support nuclear treaty monitoring and nuclear event detection.</i>				
Deliver toolkits and applications that enhance Air Force Technical Applications Center (AFTAC) capabilities to support nuclear treaty monitoring and nuclear event detection.	2	2022	4	2026
<i>Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable capabilities of other classified projects.</i>				
Continue maturation of prototypes, systems, and components for test and evaluation by end-users and transition to fieldable capabilities of other classified projects.	2	2022	4	2026
<i>Engineering & manufacturing development of information systems & components</i>				
Engineering & manufacturing development of information systems & components	2	2020	4	2021
<i>Systems development & demonstration, and initial operational test & evaluation</i>				
Systems development & demonstration, and initial operational test & evaluation	2	2020	4	2021
<i>Program management support</i>				
Program management support	2	2020	4	2021