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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0607310D8Z / <i>CWMD Systems: Operational Systems Development</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	51.825	17.953	15.427	12.713	0.000	12.713	12.481	14.238	13.351	13.649	-	-
242: <i>CWMD Systems: Operational System Development</i>	51.825	17.953	15.427	12.713	0.000	12.713	12.481	14.238	13.351	13.649	-	-

**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 (NDS)).

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" (DRAFT 2022 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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The CWMD Systems: Operational Systems Development program invests in upgrades of and enhancements to fielded systems that counter WMD proliferation. Funds are used for integration of operational prototypes into fielded systems, or other upgrades and enhancements, including any necessary test and evaluation. Investments modernize existing counter WMD capabilities within the Department of Defense to enhance the Joint Force's lethality by upgrading and enhancing currently fielded systems. Upgraded 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 requirements, 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>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2022</u></b>	<b><u>FY 2023</u></b>	<b><u>FY 2024 Base</u></b>	<b><u>FY 2024 OCO</u></b>	<b><u>FY 2024 Total</u></b>
Previous President's Budget	18.616	15.427	15.968	0.000	15.968
Current President's Budget	17.953	15.427	12.713	0.000	12.713
Total Adjustments	-0.663	0.000	-3.255	0.000	-3.255
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-0.663	-	-3.255	0.000	-3.255

**Change Summary Explanation**

FY 2024 funding realigned for higher priority requirements.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Office of the Secretary Of Defense										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0607310D8Z / CWMD Systems: Operational Systems Development				<b>Project (Number/Name)</b> 242 / CWMD Systems: Operational System Development			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
242: CWMD Systems: Operational System Development	51.825	17.953	15.427	12.713	0.000	12.713	12.481	14.238	13.351	13.649	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

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

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, ballistic missile programs, and proliferation networks; additionally the program develops 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: Operational Systems Development program invests in upgrades of and enhancements to fielded systems that counter WMD proliferation. Funds are used for integration of operational prototypes into fielded systems, or other upgrades and enhancements, including any necessary test and evaluation. Investments modernize existing counter WMD capabilities within the Department of Defense to enhance the Joint Force’s lethality by upgrading and enhancing currently fielded systems. Upgraded 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 requirements, 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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> CWMD Systems: Operational Systems Development	17.953	15.427	12.713

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Office of the Secretary Of Defense		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0607310D8Z / CWMD Systems: Operational Systems Development	<b>Project (Number/Name)</b> 242 / CWMD Systems: Operational System Development

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Description:</b> The CWMD Systems: Operational Systems Development program invests in upgrades of and enhancements to fielded systems that counter WMD proliferation. Funds are used for integration of operational prototypes into fielded systems, or other upgrades and enhancements, including any necessary test and evaluation. Investments modernize existing counter WMD capabilities within the Department of Defense to enhance the Joint Force’s lethality by upgrading and enhancing currently fielded systems. Upgraded capabilities illuminate WMD networks; exploit vulnerabilities in networks, programs, facilities, and weapons systems; and disable or defeat WMD and their delivery systems.</p> <p><b>FY 2023 Plans:</b></p> <ul style="list-style-type: none"> <li>Enhanced and fielded operational CWMD capabilities to US Special Operations Command.</li> <li>Upgraded and enhanced DoD capabilities to counter WMD proliferation.</li> <li>Partnered with the Military Services and Defense Agencies to mature and transition advanced prototypes to fielded CWMD capabilities.</li> <li>Enhanced Air Force Technical Applications Center (AFTAC) ability to support nuclear treaty monitoring and nuclear event detection.</li> <li>Upgraded and enhanced fielded systems for the Joint Force to detect, disrupt, and defeat WMD and WMD networks. Projects are classified.</li> </ul> <p><b>FY 2024 Plans:</b></p> <ul style="list-style-type: none"> <li>Enhance and field operational CWMD capabilities to US Special Operations Command.</li> <li>Upgrade and enhance Service, Combatant Command, and Defense Agency capabilities to detect, disable, or defeat WMD.</li> <li>Upgrade and enhance DoD capabilities to counter WMD proliferation.</li> <li>Upgrade or enhance fielded systems for the Joint Force to detect, disrupt, and defeat WMD and WMD networks. Projects are classified.</li> </ul> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> The FY 2024 funding decrease is representative of program adjustments to align with National Defense Strategy priorities.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	17.953	15.427	12.713

<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A
<b>Remarks</b> 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 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

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<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			
Upgrade & enhance Special Operations Forces (SOF) CWMD capabilities	MIPR	USSOCOM : TBD	13.113	7.714	Jan 2022	6.944	Jan 2023	5.760	Jan 2024	-		5.760	-	-	-
Enhance Service capabilities to detect, disable, or defeat WMD	Various	TBD : TBD	13.112	2.978	Jan 2022	2.468	Jan 2023	2.023	Jan 2024	-		2.023	-	-	-
Enhance Air Force Technical Applications Center (AFTAC) capabilities to support nuclear treaty monitoring and nuclear event detection	MIPR	AFTAC : TBD	13.276	3.351	Jan 2022	2.776	Jan 2023	2.275	Jan 2024	-		2.275	-	-	-
Upgrade fielded CWMD Systems	Various	Various : Various	12.324	3.910	Jan 2022	3.239	Jan 2023	2.655	Jan 2024	-		2.655	-	-	-
<b>Subtotal</b>			51.825	17.953		15.427		12.713		-		12.713	-	-	N/A

**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
<b>Project Cost Totals</b>	51.825	17.953	15.427	12.713	-	12.713	-	-	N/A

**Remarks**  
N/A.

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

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**CWMD Systems: Operational System Development  
BA 7 / PE 0607310D8Z**

FY17				FY18				FY19				FY20				FY21				FY22				FY23				FY24				FY25				FY26			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Upgrade fielded CWMD Systems</b>																																							
<b>Upgrade &amp; enhance Special Operations Forces (SOF) CWMD capabilities</b>																																							
<b>Enhance Service capabilities to detect, disable, or defeat WMD</b>																																							
<b>Enhance Air Force Technical Applications Center (AFTAC) capabilities to support nuclear treaty monitoring &amp; nuclear event detection</b>																																							