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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
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Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development					PE 0607310D8Z / Countering Weapons of Mass Destruction (CWMD) Systems: Operational Systems Development							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	4.721	1.832	4.194	7.222	-	7.222	8.746	12.469	14.096	11.359	Continuing	Continuing
P*242: Operational System Development	4.721	1.832	4.194	7.222	-	7.222	8.746	12.469	14.096	11.359	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Countering Weapons of Mass Destruction (CWMD) Systems program provides funding for research, development, integration, and deployment of CWMD capabilities. Funding is allocated to a portfolio of projects and activities in response to Combatant Command needs and research initiatives.

A focal point of this program is development of CWMD situational awareness capabilities. The Joint Requirements Oversight Council approved the Information Systems Initial Capabilities Document for CWMD Situational Awareness on 23 December 2015, which identifies the need for a family of systems to mitigate capability gaps identified by the Combatant Commands. U.S. Special Operations Command, which assumed CWMD mission responsibilities in January 2017 per the Unified Command Plan, is providing focus and direction for development of CWMD situational awareness capabilities. Gaining situational awareness of weapons of mass destruction (WMD) threats and risks, as well as U.S. and international efforts to counter WMD proliferation, is time-consuming and difficult. Relevant information is spread across disconnected systems, on multiple networks, and in the open source domain, making it difficult to discover and use information to support mission needs. WMD-related situations in recent years, including the removal of chemical weapons from Syria and the response to the West African Ebola outbreak, have demonstrated the need for Combatant Commands to access and share CWMD information, collaborate on planning and operations, and have a common understanding of the operational environment with mission partners.

The CWMD Systems program provides funding for two technology-enabled fusion cells at the Defense Threat Reduction Agency (DTRA) and the Defense Intelligence Agency (DIA), which utilize information systems and applications to enable CWMD situational awareness. Existing DoD information systems, networks, and applications are utilized and/or modified using CWMD Systems funding. Software development for new applications reuses software to the extent possible. The DTRA and DIA cells curate, synthesize, and contextualize CWMD information for end-users. This hybrid approach facilitates cross-organizational information sharing and collaboration, necessary for addressing the trans regional character of WMD proliferation.

The CWMD Systems program utilizes four Research, Development, Test & Evaluation (RDT&E) program elements (BA-3 / PE#0303310D8Z, BA-5 / PE#0305310D8Z, BA-6 / PE#0306310D8Z, and BA-7 / PE#0607310D8Z), as well as an Operations and Maintenance (O&M) "CWMD Sustainment" line (ORC-2531).

This Program Element (PE) funds upgrades and improvements to fielded systems or system components that are designed for the CWMD mission or can be repurposed to support it. Funding is used to integrate prototypes into existing systems or modify and enhance existing systems.

This appropriation funds travel to support the requirements of this program, and work (including manpower) performed by a government agency or by private individuals or organizations under a contractual or grant arrangement with the government who conduct research, development and test and evaluation efforts.

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B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	1.898	4.194	7.621	-	7.621
Current President's Budget	1.832	4.194	7.222	-	7.222
Total Adjustments	-0.066	0.000	-0.399	-	-0.399
• Congressional General Reductions	0.000	-			
• Congressional Directed Reductions	0.000	-			
• Congressional Rescissions	-	-			
• Congressional Adds	0.000	-			
• Congressional Directed Transfers	0.000	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.066	-			
• Cost savings transitioning to acquisition program	-	-	-0.550	-	-0.550
• DTIC Offset Bill	-	-	-0.049	-	-0.049
• SRRB adjustment	-	-	0.200	-	0.200

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense										Date: May 2017		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0607310D8Z / <i>Countering Weapons of Mass Destruction (CWMD) Systems: Operational Systems Development</i>				Project (Number/Name) P*242 / <i>Operational System Development</i>			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P*242: <i>Operational System Development</i>	4.721	1.832	4.194	7.222	-	7.222	8.746	12.469	14.096	11.359	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Title: P*242: Operational Systems Development Description: • Funds upgrades and improvements to fielded systems or system components that are designed for the CWMD mission or can be repurposed to support it. Funding is used to integrate prototypes into existing systems or modify and enhance existing systems. • Address the prioritized capability needs of existing information systems and other platforms to augment, upgrade and enhance core CWMD capabilities. FY 2016 Accomplishments: • Improved fielded systems and system components, specifically U.S. Special Operations Command's Chimera system and supporting the transition of the FADE suite of applications to a commercial cloud service provider FY 2017 Plans: • Upgrade and enhance information systems, focusing on systems in use by U.S. Special Operations Command and other Combatant Commands for CWMD situational awareness. FY 2018 Plans: • Upgrade and enhanced information systems, focusing on systems in use by U.S. Special Operations Command and other Combatant Commands for CWMD situational awareness. Systems will be selected for enhancement in coordination with U.S. Special Operations Command and informed by the results of the independent review conducted per Section 221 of the FY17 NDAA	1.832	4.194	7.222
Accomplishments/Planned Programs Subtotals	1.832	4.194	7.222

C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy Make improvements to fielded systems and identify how capabilities can be further improved through interoperability between fielded systems. E. Performance Metrics Success in this area is measured by compliance with various statutes and DoD directives that govern the conduct of the affairs within the Office of the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs (OASD/NCB). Maintain cost, schedule, and performance reporting, review, and adjudication. Maintain requirements traceability matrix.
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