

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
---	-----------------------

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 5: System Development & Demonstration (SDD)</i>					PE 0305310D8Z / <i>Countering Weapons of Mass Destruction (CWMD) Systems: System Development and Demonstration (SDD)</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
Total Program Element	-	0.000	0.000	8.230	-	8.230	15.566	9.468	0.000	0.000	Continuing	Continuing
1: <i>P*813 / System Development and Demonstration (SDD)</i>	-	0.000	0.000	8.230	-	8.230	15.566	9.468	0.000	0.000	Continuing	Continuing

Note

FY2018 increase reallocated from PE 0303310D8Z to support transition of technologies from Advanced Technology Development to System Development and Demonstration phase in support of acquisition programs of record and/or fielded systems.

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, requires expertise and information access. 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. CWMD Systems is addressing existing gaps and deficiencies through a portfolio of investments.

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. Development of 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 transregional 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).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
---	-----------------------

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0305310D8Z <i>I Countering Weapons of Mass Destruction (CWMD) Systems: System Development and Demonstration (SDD)</i>
--	--

This Program Element (PE) funds engineering and manufacturing development of CWMD situational awareness information systems and software applications, including system development and demonstration, and initial operational test and evaluation. The purpose is to develop, build, and test systems, verify that all operational and derived requirements have been met, and support product development decisions.

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.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	8.230	-	8.230
Total Adjustments	0.000	0.000	8.230	-	8.230
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Funding Realigned from PE 0303310D8Z	-	-	8.287	-	8.287
• DTIC Offset	-	-	-0.057	-	-0.057

Change Summary Explanation

FY2018 increase reallocated from PE 0303310D8Z to support transition of technologies to acquisition programs of record and/or fielded systems.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense										Date: May 2017		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0305310D8Z / <i>Countering Weapons of Mass Destruction (CWMD) Systems: System Development and Demonstration (SDD)</i>				Project (Number/Name) 1 / P*813 / <i>System Development and Demonstration (SDD)</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
1: <i>P*813 / System Development and Demonstration (SDD)</i>	-	0.000	0.000	8.230	-	8.230	15.566	9.468	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY2018 increase reallocated from PE 0303310D8Z to support transition of technologies from Advanced Technology Development to System Development and Demonstration phase in support of acquisition programs of record and/or fielded systems.

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, requires expertise and information access. 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. CWMD Systems is addressing existing gaps and deficiencies through a portfolio of investments.

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. Development of 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 transregional 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).

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017		
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305310D8Z / <i>Countering Weapons of Mass Destruction (CWMD) Systems: System Development and Demonstration (SDD)</i>	Project (Number/Name) 1 / <i>P*813 / System Development and Demonstration (SDD)</i>		
<p>This Program Element (PE) funds engineering and manufacturing development of CWMD situational awareness information systems and software applications, including system development and demonstration, and initial operational test and evaluation. The purpose is to develop, build, and test systems, verify that all operational and derived requirements have been met, and support product development decisions.</p> <p>This project 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.</p>				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
Title: P*001 / System Development and Demonstration (SDD) Description: • Perform engineering and manufacturing development of CWMD Situational Awareness information systems and components • Perform system development and demonstration, and initial operational test and evaluation • Provide support to program management office on product development decisions FY 2016 Accomplishments: None FY 2017 Plans: None FY 2018 Plans: • Perform engineering and manufacturing development of CWMD Situational Awareness information systems and components • Perform system development and demonstration, and initial operational test and evaluation • Provide support to program management office on product development decisions		0.000	0.000	8.230
Accomplishments/Planned Programs Subtotals		0.000	0.000	8.230
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy Utilize or reuse information technologies to field initial capabilities to end-users. As technologies mature and user needs are refined, systems or applications may transition to acquisition program(s) or be sustained separately. Integration of or interoperability among systems is also an acquisition pathway.				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense		Date: May 2017
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0305310D8Z / <i>Countering Weapons of Mass Destruction (CWMD) Systems: System Development and Demonstration (SDD)</i>	Project (Number/Name) 1 / <i>P*813 / System Development and Demonstration (SDD)</i>
E. Performance Metrics <p>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.</p>		