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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605036A / <i>Combating Weapons of Mass Destruction (CWMD)</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	2.089	-	2.089	6.543	5.188	8.851	3.831	0.000	26.502
EQ5: <i>Combating Weapons of Mass Destruction (CWMD)</i>	-	0.000	0.000	2.089	-	2.089	6.543	5.188	8.851	3.831	0.000	26.502

A. Mission Description and Budget Item Justification

The Man-Portable Radiological Detection System (MRDS) capability will provide increased radiological and nuclear (RN) detection, localization, presumptive identification and field-confirmatory identification capabilities that are networked to provide situational awareness at the tactical level. The MRDS will support Countering Weapons of Mass Destruction (CWMD) Interdiction and Elimination operations, specifically RN Sensitive Site Assessments and Sensitive Site Exploitation. Future increments of this capability may also support Reconnaissance and Surveillance across the full range of CWMD operations. This capability supports Radiological and Nuclear Interdiction (RNI) and Weapons of Mass Destruction - Elimination (WMD-E) operations to: systematically locate, secure, characterize, and disable WMD programs and related capabilities.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	2.089	-	2.089
Total Adjustments	0.000	0.000	2.089	-	2.089
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	2.089	-	2.089

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605036A / <i>Combating Weapons of Mass Destruction (CWMD)</i>	Project (Number/Name) EQ5 / <i>Combating Weapons of Mass Destruction (CWMD)</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
EQ5: <i>Combating Weapons of Mass Destruction (CWMD)</i>	-	0.000	0.000	2.089	-	2.089	6.543	5.188	8.851	3.831	0.000	26.502
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Man-Portable Radiological Detection System (MRDS) capability will provide increased radiological and nuclear (RN) detection, localization, presumptive identification and field-confirmatory identification capabilities that are networked to provide situational awareness at the tactical level. The MRDS will support Countering Weapons of Mass Destruction (CWMD) Interdiction and Elimination operations, specifically RN Sensitive Site Assessments and Sensitive Site Exploitation. Future increments of this capability may also support Reconnaissance and Surveillance across the full range of CWMD operations. This capability supports Radiological and Nuclear Interdiction (RNI) and Weapons of Mass Destruction - Elimination (WMD-E) operations to: systematically locate, secure, characterize, and disable WMD programs and related capabilities.

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

	FY 2015	FY 2016	FY 2017
<p>Title: MRDS: Acquisition Documentation Development</p> <p>Description: Provide the acquisition documentation for the MRDS program MS-C.</p> <p>FY 2017 Plans: Initiate the development of the acquisition documentation.</p>	-	-	0.260
<p>Title: MRDS: Program Management</p> <p>Description: Provide Program Management</p> <p>FY 2017 Plans: MRDS: Initiate Government program management and Integrated Product Team (IPT) support.</p>	-	-	0.299
<p>Title: MRDS: Developmental Test and Evaluation Support</p> <p>Description: Provide support for development of Test & Evaluation Plan for MRDS.</p> <p>FY 2017 Plans: Provide Developmental Test and Evaluation for the MRDS program.</p>	-	-	0.090
<p>Title: MRDS: System Engineering</p> <p>Description: Provide system engineering support to the MRDS program.</p>	-	-	0.470

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2015	FY 2016	FY 2017
FY 2017 Plans: Initiate the system engineering planning and support for the MRDS program.				
Title: MRDS: Cybersecurity Description: Provide cybersecurity to the MRDS program.		-	-	0.200
FY 2017 Plans: Initiate cybersecurity planning and support to the MRDS program.				
Title: MRDS: Acquisition Logistics Description: Provide Acquisition Logistics for the MRDS program.		-	-	0.300
FY 2017 Plans: Initiate acquisition logistics planning and support to the MRDS program.				
Title: MRDS: Analytical Support Description: Provide analytical support to the MRDS program.		-	-	0.470
FY 2017 Plans: Provide analytical support and planning to the MRDS program.				
Accomplishments/Planned Programs Subtotals		-	-	2.089
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy Man-portable Radiological Detection System is a single step acquisition strategy starting at Milestone C to acquire Commercial-Off-The-Shelf equipment sets consisting of a Hands-Free search device, a Hand-Held Radioisotope Identification Device, an integrated tactical radio network, and a Situational Awareness tool in order to provide specialized Army units with a net-ready, rugged, and reliable system that can detect, identify, and characterize designated radionuclides and transmit that information securely to tactical, operational, and strategic command levels in near-real time. The contract approach will be a full and open fixed price incentive successive targets contract for LRIP systems to support post Milestone C testing, and an indefinite delivery indefinite quantity fixed price incentive successive targets contract for the full rate production task order.				

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E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605036A / Combating Weapons of Mass Destruction (CWMD)				EQ5 / Combating Weapons of Mass Destruction (CWMD)							
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	MIPR	Various : Various	0.000	-		-		0.299		-		0.299	0	0.299	0
Subtotal			0.000	-		-		0.299		-		0.299	0.000	0.299	0.000
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Cybersecurity	MIPR	Edgewood Chemical and Biological Center : Edgewood, Maryland	0.000	-		-		0.200		-		0.200	0	0.200	0
Acquisition Logistics	MIPR	Communications-Electronics Command : Aberdeen Proving Ground, MD	0.000	-		-		0.300		-		0.300	0	0.300	0
Analytical Support	MIPR	Various : Various	0.000	-		-		0.600		-		0.600	0	0.600	0
Systems Engineering	MIPR	Edgewood Chemical and Biological Center : Aberdeen Proving Ground, MD	0.000	-		-		0.600		-		0.600	0	0.600	0
Subtotal			0.000	-		-		1.700		-		1.700	0.000	1.700	0.000
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DT&E	MIPR	ATEC : Aberdeen Proving Ground, MD	0.000	-		-		0.090		-		0.090	0	0.090	0
Subtotal			0.000	-		-		0.090		-		0.090	0.000	0.090	0.000

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Documentation Development																												
Developmental Testing																												
(1) Milestone C													▲															
Contract Award													■															
LRIP													■															
Product Quality Testing													■															
Log Demo and IOT&E													■															
FRP													■															

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605036A / <i>Combating Weapons of Mass Destruction (CWMD)</i>	Project (Number/Name) EQ5 / <i>Combating Weapons of Mass Destruction (CWMD)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Acquisition Documentation Development	1	2017	4	2017
Developmental Testing	3	2017	4	2017
Milestone C	1	2018	1	2018
Contract Award	2	2018	2	2018
LRIP	3	2018	1	2019
Product Quality Testing	2	2019	2	2020
Log Demo and IOT&E	3	2020	4	2020
FRP	2	2021	2	2021