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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Defense Threat Reduction Agency	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>					PE 0605000BR: <i>WMD Defeat Capabilities</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	7.826	5.750	5.749	12.901	-	12.901	12.967	15.518	15.941	16.194	Continuing	Continuing
RF: <i>Detection and Forensics Technologies</i>	-	0.000	0.000	6.906	-	6.906	6.890	7.159	7.400	7.500	Continuing	Continuing
RL: <i>Nuclear & Radiological Effects</i>	7.826	5.750	5.749	5.995	-	5.995	6.077	8.359	8.541	8.694	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This program element supports the development of system capabilities for the Countering Weapons of Mass Destruction (CWMD) mission. This funding specifically supports (1) the development of collaborative CWMD analysis capabilities between DoD and key interagency and international partners through a globally accessible net-centric framework in the form of the Integrated Weapons of Mass Destruction Toolset (IWMDT) and (2) technologies to meet national International Monitoring System (IMS) technology requirements in support of implementation, compliance, monitoring, and inspection for existing and emerging nuclear arms control activities under the Nuclear Arms Control Technology (NACT) program.

The WMD Defeat Capabilities program element supports the National Strategy for Countering Biological Threats priorities, and Weapons of Mass Destruction (WMD) monitoring requirements validated by the Office of the Under Secretary of Defense, Acquisition, Technology, and Logistics (OUSD AT&L). The general strategy spells out four focus areas: 1) Promote global health security efforts through building and improving international capacity to prevent, detect, and respond to infectious disease threats, whether caused by natural, accidental, or deliberate events, 2) Establish and reinforce norms against the misuse of the life sciences, 3) Expand of our capability to prevent, attribute, and apprehend those engaged in biological weapons proliferation or terrorism, with a focus on facilitating data sharing and knowledge discovery to improve integrated capabilities (Capability Expansion); and 4) Leveraging science, technology, and innovation through domestic and international partnerships and agreements to improve global capacity to respond to and recover from biological incidents (Leveraging Science). In addition to the broad priorities, there are specific objectives to support the WMD monitoring through Research, Development, Testing, and Evaluation (RDTE) in support of implementation, compliance, monitoring, and inspection for existing and emerging nuclear arms control activities. Details are provided in the R-2a exhibits.

Project RF-Detection and Forensics Technologies supports the Nuclear Arms Control Technologies (NACT) Program, conducting Research, Development, Testing, and Evaluation (RDT&E) to meet International Monitoring System (IMS) technology requirements in support of implementation, compliance, monitoring, and inspection for existing and emerging nuclear arms control activities.

Project RL-Nuclear & Radiological Effects develops and provides a real-time globally accessible net-centric framework which migrates the Defense Threat Reduction Agency (DTRA) chemical, biological, radiological, nuclear, and high explosive (CBRNE) modeling and simulation codes to provide an integrated suite of Combating WMD decision support capabilities.

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>
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B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	5.888	5.749	5.995	-	5.995
Current President's Budget	5.750	5.749	12.901	-	12.901
Total Adjustments	-0.138	0.000	6.906	-	6.906
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.138	-			
• Program Transfer: Nuclear Arms Control Technology (NACT) Program	-	-	6.906	-	6.906

Change Summary Explanation

The decrease from the previous President's Budget submission in FY 2012 is due to the internal SBIR transfer. The increase in FY 2014 is due to the transfer of the Nuclear Arms Control Technology (NACT) program from the United States Army to the Defense Threat Reduction Agency.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Threat Reduction Agency										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0605000BR: WMD Defeat Capabilities				PROJECT RF: Detection and Forensics Technologies			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
RF: Detection and Forensics Technologies	-	0.000	0.000	6.906	-	6.906	6.890	7.159	7.400	7.500	Continuing	Continuing
Quantity of RDT&E Articles												

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The Nuclear Arms Control Technology (NACT) Program provides Research, Development, Testing, and Evaluation (RDTE) to meet International Monitoring System (IMS) technology requirements in support of Comprehensive Nuclear Test Ban Treaty implementation, compliance, monitoring, and inspection and other existing and emerging nuclear arms control activities. The project directly provides for the US contribution to the IMS and addresses Weapons of Mass Destruction (WMD) monitoring requirements validated by the Office of the Under Secretary of Defense, Acquisition, Technology, and Logistics (OUSD AT&L). This project conforms to the Administration's research and development priorities as related to WMD arms control and disablement. Technical assessments are made to provide the basis for sound project development, evaluate existing programs and provide the data required to inform compliance assessments and support US monitoring policy and decision-makers and negotiation teams. The DTRA conducts technology developments and system improvement projects to ensure these monitoring capabilities are available when required.

Primary emphasis is on improved sensor sustainability, availability and detection capabilities against a wide range of threat or event origins and enhanced monitoring system sustainability and availability. The program includes development of monitoring and analysis equipment and capabilities and procedures for data exchanges, inspections, and analyses. The technologies and procedures developed in the NACT program provide a vital source of information on treaty mandated equipment and procedures that are extensively used by US and international agencies. This project also supports the warfighting capability area of combatting WMD.

The increase from FY 2013 to FY 2014 is due to the transfer of the Nuclear Arms Control Technology (NACT) program to the Defense Threat Reduction Agency (DTRA). The NACT program will transfer from United States Army Space Missile Development Command (SMDC) to DTRA beginning in FY 2014.

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

	FY 2012	FY 2013	FY 2014
Title: RF - Detection and Forensics Technologies	0.000	0.000	6.906
Description: Project RF-Detection and Forensics Technologies supports the Nuclear Arms Control Technologies (NACT) Program, conducting Research, Development, Testing, and Evaluation (RDT&E) to meet International Monitoring System (IMS) technology requirements in support of implementation, compliance, monitoring, and inspection for existing and emerging nuclear arms control activities.			
FY 2012 Accomplishments:			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Threat Reduction Agency		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>	PROJECT RF: <i>Detection and Forensics Technologies</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
N/A			
FY 2013 Plans: N/A			
FY 2014 Plans: -Continue support of OSD treaty management objectives and continue participating in joint US-International Comprehensive Test Ban Office Provisional Technical Secretariat (PTS) sponsored technology development exchanges and developmental exercises in support of technology development and IMS operations and maintenance objectives. - Continue prototype sensor development, station calibration, and metrology planning. - Continue development of monitoring station array element calibration with focus on developing in-situ array calibration and performance monitoring capabilities. Conduct signal capture and identification studies to reduce signal clutter, false alarms, and improve noise rejection methods and algorithms. - Continue planning to evaluate options for performing experiments or demonstrations to evaluate system performance to monitor a planned underground or underwater detonation. The detonation will be non-nuclear in nature but configured to simulate the release of suitable surrogate nuclear testing signatures. All associated signatures will be acceptable to environmental and health regulations and of a nature suitable to challenge IMS monitoring technologies. - Continue radio-xenon gas detection system development and research. Study and evaluate atmospheric and subsurface xenon backgrounds and transport phenomenon. - Continue a study of baseline noble gas detection schemes and select the pathway for future radio-xenon detection options providing enhanced detection and operational capabilities and reliability. This study is paying close attention to timeline and feasibility of implementation alternatives. - Continue infrasound information system enhancements and development of infrasound propagation models to improve detection, identification, and discrimination of sources and signatures of interest. - Continue field experiments to collect data required to constrain and validate models. Models will include fine-scale atmospheric conditions, topography, 3-D winds and effects of non-linear propagation. - Continue to develop a portable/rapid deployable infrasound array and standard sound source for calibrating infrasound stations/ arrays. - Continue on-location infrasound event calibration and metrology research at established engineering and development test centers (EDTC), continue development of EDTCs to support research, testing, and evaluation relevant to station shutdowns, configuration changes, and invasive procedures, and use EDTCs to perform primary evaluations of prototype monitoring arrays and related new technologies and all associated field testing. - Continue R&D on support system to collect and prioritize station operator requirements to inform required design-build-test activities across the monitoring system. Focus areas continue to be improvements to radionuclide detector cooling and functionality, filtration medium and sample head, and electronic controls.			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Threat Reduction Agency										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>				PROJECT RF: <i>Detection and Forensics Technologies</i>				
B. Accomplishments/Planned Programs (\$ in Millions)												
- Continue US IMS sensor event signal identification technique research and development of the transportable xenon laboratory (TXL) and associated xenon detection system and prepare for international deployment exercises and demonstrations. Operations and maintenance performed in advance of the TXL foreign deployment will establish an operations baseline for this xenon monitoring capability and provide unique opportunities to diagnose and resolve remaining operational and technical concerns and issues, including investigating the "memory effect" recently encountered in these systems as a result of the unintended radio-xenon releases from the Fukushima reactors. Also planned is a continuation of infrasound event clutter and false alarm reduction, and noise mitigation analyses. - Continue to drive improvements in radionuclide detection and measurement, including xenon gas collection/analysis systems research. Evaluate detection limits, and yields. The PTS technical requirements dictate that the US radionuclide laboratory (RL-16) gas system requires additional capability to meet required detection thresholds. Develop test methods to increase xenon gas yields, improve detection efficiencies, and decrease dead volume. To ensure RL-16 is making a high precision measurement, analysis samples will be peer reviewed and calibrated at certified laboratories. - Continue to develop a robust, high-precision method to calibrate nuclear detectors and calibration methods to obtain the absolute calibration of the system's nuclear detector.										FY 2012	FY 2013	FY 2014
Accomplishments/Planned Programs Subtotals										0.000	0.000	6.906
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• 02/0602718BR: <i>RF - Detection and Forensics Technologies</i>	45.570	44.998	40.454		40.454	40.857	41.638	42.560	43.447	Continuing	Continuing	
• 03/0603160BR: <i>RF- Detection and Forensics Technologies</i>	72.980	76.298	74.556		74.556	75.219	77.505	79.198	79.891	Continuing	Continuing	
Remarks												
D. Acquisition Strategy Not Applicable												
E. Performance Metrics The Nuclear Arms Control Technology (NACT) program will transfer from US Army Space Missile Development Command (SMDC) to the Defense Threat Reduction Agency (DTRA) beginning in FY 2014. DTRA will complete the performance metrics for NACT following the completion of a FY 2014-18 NACT RDT&E planning review.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Threat Reduction Agency												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>						PROJECT RF: <i>Detection and Forensics Technologies</i>			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Radionuclide Analyses Technology	IA	Pacific Northwest National Laboratory:Richland, WA	-	-		-		2.731	Jan 2014	-		2.731	12.249	14.980	14.980
Seismic Waveform Analyses Technology	C/Various	University of Mississippi:Oxford, MS	-	-		-		3.100	Jan 2014	-		3.100	12.400	15.500	15.500
Engineering & Technical Services	Option/ CPFF	TASC, Inc.:Chantilly, VA	-	-		-		0.800	Dec 2013	-		0.800	3.200	4.000	4.000
Subtotal			0.000	0.000		0.000		6.631		0.000		6.631	27.849	34.480	34.480
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
A&AS Support to Program Office	C/CPFF	*TASC, Inc.:Chantilly, VA	-	-		-		0.200	Dec 2013	-		0.200	0.800	1.000	1.000
Travel	C/Various	Various:Various	-	-		-		0.075	Dec 2013	-		0.075	0.300	0.375	0.375
Subtotal			0.000	0.000		0.000		0.275		0.000		0.275	1.100	1.375	1.375
Remarks *Current contract will end in FY2015 and be re-competed.															
			All Prior Years	FY 2012	FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			0.000	0.000		0.000		6.906		0.000		6.906	28.949	35.855	35.855
Remarks Remarks: The Nuclear Arms Control Technologies (NACT) Program provides Research, Development, Testing, and Evaluation (RDTE) to meet International Monitoring System (IMS) technology requirements in support of implementation, compliance, monitoring, and inspection for existing and emerging nuclear arms control activities. The project addresses WMD monitoring requirements validated by the Office of the Under Secretary of Defense, Acquisition, Technology, and Logistics (OUSD AT&L). This project conforms to the administrations research and development priorities as related to Weapons of Mass Destruction (WMD) arms control and disablement. Technical assessments are made to provide the basis for sound project development , evaluate existing programs and provide the data required to make compliance judgments and															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Threat Reduction Agency							DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605000BR: WMD Defeat Capabilities			PROJECT RF: Detection and Forensics Technologies			
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
support US monitoring policy- and decision-makers and negotiation teams. Technology developments and system improvement projects are conducted to ensure these monitoring capabilities are available when required. NOTE: 1. Current contract will end in FY2015 and be re-competed.										

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Threat Reduction Agency																DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>								R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>								PROJECT RF: <i>Detection and Forensics Technologies</i>			

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Waveform and radionuclide monitoring capability enhancements																												
System reliability and availability enhancements																												
System operations and efficiency improvements																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Threat Reduction Agency			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0605000BR: WMD Defeat Capabilities	PROJECT RF: Detection and Forensics Technologies	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Waveform and radionuclide monitoring capability enhancements	2	2014	4	2018
System reliability and availability enhancements	2	2014	4	2018
System operations and efficiency improvements	2	2014	4	2018

Note

The Nuclear Arms Control Technology (NACT) program will transfer from US Army Space Missile Development Command (SMDC) to the Defense Threat Reduction Agency (DTRA) beginning in FY 2014. DTRA will complete the Schedule Details for NACT, following the completion of a FY 2014-FY18 NACT RDT&E planning review.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Threat Reduction Agency										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide					PE 0605000BR: WMD Defeat Capabilities				RL: Nuclear & Radiological Effects			
BA 5: System Development & Demonstration (SDD)												
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
RL: Nuclear & Radiological Effects	7.826	5.750	5.749	5.995	-	5.995	6.077	8.359	8.541	8.694	Continuing	Continuing
Quantity of RDT&E Articles												

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This project supports the National Strategy for Countering Biological Threat priority/focus areas 3) Capability Expansion and 4) Leveraging Science. Under Project RL, the Net-Centric Architecture program integrates legacy capabilities and facilitates data sharing through a net-centric framework. It will provides near-real time collaborative analysis capabilities between DoD and key interagency and international partners through a globally accessible net-centric framework known as the Integrated Weapons of Mass Destruction Toolset (IWMDT). The IWMDT migrates Defense Threat Reduction Agency (DTRA) chemical, biological, radiological, nuclear, and high explosive (CBRNE) modeling and simulation codes to provide an integrated suite of Countering WMD decision support capabilities. The framework is the only operational CBRNE framework in the world which provides capabilities through web applications, net-centric web services, and stand-alone mobile deployments which are validated and accredited for operational use by International, National, State, and local authorities.

The Net-Centric Architecture program includes three functional areas: 1) IWMDT, 2) IWMDT Codes, and 3) Software Assurance, Certification, and Accreditation. The IWMDT functional area develops the architecture, defines and implements the standards to consolidate validated Defense Threat Reduction Agency (DTRA) tools, and through this architecture, enables rapid access for planning, emergency response, and assessment capabilities. These capabilities are used by a wide range of planners, managers, and operational and technical personnel facing the full spectrum of CBRNE threats. The IWMDT Codes functional area develops analysis and simulation codes, and then integrates the codes into the IWMDT architecture. These activities are unique to this effort across the Department of Defense (DoD). They directly support analysis capabilities in the Office of the Secretary of Defense (OSD) Studies and Analysis Group, and Cost Assessment and Program Evaluation (OSD CAPE), US Pacific Command and United States Forces Korea (USFK) offices, Republic of Korea (ROK) Ministry of Defense, Ministry of Defense Taiwan, as well as providing unique simulation capabilities to the Air Force Distributed Mission Operation Center. The Software Assurance, Certification and Accreditation functional area supports all aspects of DTRA software development and fielding. This sub-project extends research and development to system development and demonstration.

The increase from FY 2013 to FY 2014 is due to increased investment for fielding of IWMDT.

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

	FY 2012	FY 2013	FY 2014
Title: RL: Nuclear & Radiological Effects	5.750	5.749	5.995
Description: Project RL-Nuclear & Radiological Effects develops and provides a real-time globally accessible net-centric framework which migrates the Defense Threat Reduction Agency (DTRA) chemical, biological, radiological, nuclear, and			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Threat Reduction Agency							DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605000BR: WMD Defeat Capabilities			PROJECT RL: Nuclear & Radiological Effects				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2012	FY 2013	FY 2014		
high explosive (CBRNE) modeling and simulation codes to provide an integrated suite of Combating WMD decision support capabilities. FY 2012 Accomplishments: - Developed and provided a CBRNE web service from IWMDT for integration within the STRATCOM MPAS (Mission Planning and Assessment System) for real-time consequence of execution analysis. - Integrated advanced capabilities within the Net-Centric Architecture with the Global Strike Mission. - Completed development and integration of enhanced capabilities across all five IWMDT major capability areas: 1) Enhanced Consequence Assessment with Hazard Prediction and Assessment Capability (HPAC) SP1 MB; 2) Conducted Target Support Integrated Munitions Effects Assessment (IMEA) 2012; 3) Introduced a new Nuclear Effects satellite assessment model; 4) Transitioned IWMDT-SIM from a standalone code base to a fully integrated capability; and 5) Integrated the Joint Collaborative Analysis Model (JCAM) (net-centric interface to ITEM model) with codes for HPAC, Nuclear Weapons Effects Database System (NWEDS) and Probability of Damage Calculator (PDCALC) within IWMDT. FY 2013 Plans: - Leverage the 4th Quarter FY 2011 and FY 2012 successes across USSTRATCOM, the UK and SHAPE, enabling IWMDT to become the primary CBRNE assessment capability within the DTRA Reachback and enabling it to become the single integrated assessment CBRNE capability across DTRA, STRATCOM, UK and U.S. Army Nuclear and Combating WMD Agency (USANCA). FY 2014 Plans: - Install IWMDT version 3.4 (server based) at USFK for collaboration between US forces and the ROK forces. - Field IWMDT version 3.4 to U.S. Strategic Command, United Kingdom, Supreme Headquarters Allied Powers Europe (SHAPE), OSD, U.S. Army Nuclear and Combating WMD Agency (USANCA), and DTRA Reachback. - Broad deployment of IWMDT version 3.4 to Department of Homeland Security. - Complete IWMDT version 3.5.											
Accomplishments/Planned Programs Subtotals							5.750	5.749	5.995		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• 25/0602718BR: WMD Defeat Technologies	25.343	25.752	35.741		35.741	37.284	37.888	38.297	38.824	Continuing	Continuing
Remarks											

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Threat Reduction Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>	PROJECT RL: <i>Nuclear & Radiological Effects</i>
<u>D. Acquisition Strategy</u> The program for IWMDT is executed through a competed Cost Plus Fixed-Fee contract. This contract is a 3-year effort for software development, test, and integration. Follow-on contracts will be competed for award to continue any out-year activities.		
<u>E. Performance Metrics</u> Demonstrate and provide over 80% of the customer-required CBRNE modeling and simulation capabilities over networks, e.g. Department of Defense Global Information Grid. Integrate mission-required legacy Defense Threat Reduction Agency CBRNE codes into a net-centric architecture through a process-controlled Verification, Validation, and Accreditation standards-based method necessary to promote the National Strategy for Countering Biological Threats.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Threat Reduction Agency **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>				PROJECT RL: <i>Nuclear & Radiological Effects</i>			
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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Development - IWMDT	C/CPAF	SAIC:San Diego, CA	17.109	3.100	Jan 2012	-		2.000	May 2014	-		2.000	14.510	36.719	36.719
System Development - NuCS	C/CPFF	Applied Research Associates:Raliegh, NC	4.930	0.000		0.000		-		-		-	0.000	4.930	4.930
System Development - COE	C/CPFF	Titan:Kingstowne, VA	5.533	0.000		0.000		-		-		-	0.000	5.533	5.533
System Development - Component Contracts	C/Various	Various:Various	5.073	0.000		0.000		-		-		-	0.000	5.073	5.073
Subtotal			32.645	3.100		0.000		2.000		0.000		2.000	14.510	52.255	52.255

Remarks

The "Various" reported reflects multiple contracts, mainly CPFF.

Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Configuration Management	C/Various	SAIC:San Diego, CA	0.146	0.060	Jan 2012	0.095	Mar 2013	0.095	May 2012	-		0.095	1.353	1.749	1.749
Software Integration	C/Various	SAIC:San Diego, CA	3.100	0.200	Jan 2012	2.510	Mar 2013	1.510	May 2014	-		1.510	1.100	8.420	8.420
Technical Data	C/Various	SAIC:San Diego, CA	0.050	0.435	Jan 2012	0.050	Mar 2013	0.050	May 2014	-		0.050	0.938	1.523	1.661
Engineering Services	C/Various	SAIC:San Diego, CA	1.464	0.503	Jan 2012	0.908	Mar 2013	0.808	May 2014	-		0.808	0.786	4.469	4.469
Accreditation & Certification	C/Various	SAIC:San Diego, CA	0.146	0.420	Jan 2012	0.509	Mar 2013	0.560	May 2014	-		0.560	0.983	2.618	2.618
Subtotal			4.906	1.618		4.072		3.023		0.000		3.023	5.160	18.779	18.917

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Defense Threat Reduction Agency **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>				PROJECT RL: <i>Nuclear & Radiological Effects</i>			
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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	C/Various	SAIC:San Diego, CA	1.555	0.350	Jan 2012	0.505	Mar 2013	0.574	May 2014	-		0.574	1.300	4.284	4.284
Operational Test & Evaluation	C/Various	SAIC:San Diego, CA	1.555	0.070	Jan 2012	0.398	Mar 2013	0.398	May 2014	-		0.398	0.925	3.346	3.346
Subtotal			3.110	0.420		0.903		0.972		0.000		0.972	2.225	7.630	7.630

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	C/Various	SAIC:San Diego, CA	2.296	0.132	Jan 2012	0.234	Mar 2013	-		-		-	2.100	4.762	4.762
Travel	C/Various	SAIC:San Diego, CA	1.070	0.240	Jan 2012	0.270	Mar 2013	-		-		-	1.300	2.880	2.880
Overhead	C/Various	SAIC:San Diego, CA	2.293	0.240	Jan 2012	0.270	Mar 2013	-		-		-	1.600	4.403	4.403
Subtotal			5.659	0.612		0.774		0.000		0.000		0.000	5.000	12.045	12.045

			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			46.320	5.750		5.749		5.995		0.000		5.995	26.895	90.709	90.847

Remarks

Remarks: All "PY Costs" costs and activities for Integrated Weapons of Mass Destruction Toolset (IWMDT), Nuclear Capability Server (NuCS), and Consequence of Execution (COE) were assigned under Project BD of PE 0602716BR. IWMDT was funded in 2004 by a competitive Cost plus award fee (CPAF) contract for \$12.425M over a 3-year period. At end of FY 2006, its follow-on contract was awarded with an initial \$.300M increment. IWMDT program efforts have continued into FY 2013 with \$35.26M now applied. Likewise, the NuCS program was funded under a competitive Cost plus fixed fee (CPFF) contract over a 3-year period with funding of \$5.913M applied through FY 2008; a follow-on contract has now been awarded with initial funding to date of \$2.356M to continue program efforts, this effort is not funded past FY11 under this line. COE was funded under a competitive CPFF contract with increments to date of \$6.566M total. NUCS and COE will no longer be funded under this line. Task Order 00055 (IWMDT) Option 1 of the base contract was issued Nov 2012 for an 18 month period of performance. In May 2014 the current task order will be completed and all follow-on work will be performed under the new IDIQ contract as a new task order.

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Threat Reduction Agency	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>	PROJECT RL: <i>Nuclear & Radiological Effects</i>
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FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
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

IWMDT - System Development, Test, and Integration - Phase 3/4																												
IWMDT - System Development, Test and Integration - Phase 5/6																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Threat Reduction Agency			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605000BR: <i>WMD Defeat Capabilities</i>	PROJECT RL: <i>Nuclear & Radiological Effects</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IWMDT - System Development, Test, and Integration - Phase 3/4	3	2012	3	2014
IWMDT - System Development, Test and Integration - Phase 5/6	3	2014	2	2017