Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense											DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*					R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*							
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	33.609	29.792	33.234	63.641	-	63.641	47.932	48.436	47.823	50.207	Continuing	Continuing
P162: *Nuclear and Conventional Physical Security*	33.609	29.792	33.234	34.443	-	34.443	33.360	34.221	34.823	36.707	Continuing	Continuing
P164: *CNT Rad/Nuc Passive Defense*	0.000	0.000	0.000	1.985	-	1.985	0.000	0.000	0.000	0.000	Continuing	Continuing
P165: *National Technical Nuclear Forensics Systems*	0.000	0.000	0.000	27.213	-	27.213	14.572	14.215	13.000	13.500	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 (PE) addresses the need to defend and deter against weapons of mass destruction (WMD) threats and to safeguard personnel; prevent unauthorized access to equipment, installations, material, and documents; and to safeguard the foregoing against espionage, sabotage, damage, and theft. This program oversees advanced engineering development throughout DoD for an integrated and systemic RDT&E approach for countering nuclear threats and nuclear and conventional physical security technology and systems. The funding has been centralized in this Defense-wide PE since the early 1990s and represents a substantial portion of all DoD physical security RDT&E funding. Priorities for this PE RDT&E efforts are driven by inputs from Quadrennial Defense Review guidance, Combatant Command and Service requirements, analysis reports such as “Protecting the Force: Lessons from Fort Hood," January 2010, the Integrated Unit, Base, and Installation Protection Cost Benefits Analysis, Multi-national Work Plans established through the Nuclear Security Summit process, and DoD Directive 5210.41, Security Policy for Protecting Nuclear Weapons-directed requirements and associated security deviation reports.

Under this integrated approach, funds are used to provide advanced component development and prototypes for the Department in seven capability areas: (1) Detection and Assessment; (2) Access Controls; (3) Installation and Transport Security; (4) Storage and Safeguards; (5) Prevention; (6) Decision Support Systems; and (7) Analytical Support. This program will evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment. The projects under the Program Element either (a) lead to Programs of Record which can transition to Program Element 0604161D8Z for systems development and demonstration (SDD); (b) become technology insertions into existing programs; or (c) advance to being a certified Commercial/Government off-the-shelf product. The PE initiatives are coordinated by the Physical Security Enterprise and Analysis Group. This group is responsible for avoiding duplication of effort and when applicable ensure systems integration and promote interoperability and sustainability.

This PE can fund travel to support the requirements of this program.

This appropriation will finance 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 (systematic study directed toward fuller scientific knowledge or understanding of the subject studied),

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development (systematic use of the knowledge and understanding gained from research, for the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes) and test and evaluation efforts.

B. Program Change Summary ($ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	29.924	33.234	32.629	-	32.629
Current President's Budget	29.792	33.234	63.641	-	63.641
Total Adjustments	-0.132	0.000	31.012	-	31.012
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments	-0.132	0.000	31.012	-	31.012

Change Summary Explanation

FY12 reductions for SBIR adjustment (-0.123) and internal withhold (-0.009).

Internal realignment decisions added $31.012M to the Program Element to develop Countering Nuclear Threats Radiological and Nuclear Passive Defense and National Technical Nuclear Forensics Systems. This program addresses Presidential mandate to counter Weapons of Mass Destruction and address Multi-national Work Plans established through the Nuclear Security Summit process.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense			DATE: April 2013
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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
P162: *Nuclear and Conventional Physical Security*	33.609	29.792	33.234	34.443	-	34.443	33.360	34.221	34.823	36.707	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 Program Element (PE) addresses the need to defend and deter against weapons of mass destruction (WMD) threats and to safeguard personnel; prevent unauthorized access to equipment, installations, material, and documents; and to safeguard the foregoing against espionage, sabotage, damage, and theft. This program oversees advanced engineering development throughout DoD for an integrated and systemic RDT&E approach for countering nuclear threats and nuclear and conventional physical security equipment (PSE) technology and systems. The funding has been centralized in this Defense-wide PE since the early 1990s and represents a substantial portion of all DoD PSE RDT&E funding. Priorities for this PE RDT&E efforts are driven by inputs from Quadrennial Defense Review guidance, Combatant Command and Service requirements, analysis reports such as “Protecting the Force: Lessons from Fort Hood," January 2010, the Integrated Unit, Base, and Installation Protection Cost Benefits Analysis, Multi-national Work Plans established through the Nuclear Security Summit process, and DoD Directive 5210.41, Security Policy for Protecting Nuclear Weapons-directed requirements and associated security deviation reports.

Under this integrated approach, funds are used to provide PSE advanced component development and prototypes for the Department in seven capability areas: (1) Detection and Assessment; (2) Access Controls; (3) Installation and Transport Security; (4) Storage and Safeguards; (5) Prevention; (6) Decision Support Systems; and (7) Analytical Support. The projects under the Program Element either (a) lead to Programs of Record – which can transition to Program Element 0604161D8Z for systems development and demonstration (SDD); (b) become technology insertions into existing programs; or (c) advance to being a certified Commercial/Government off-the-shelf product. The PE initiatives are coordinated by the Security Policy Verification Committee and the Physical Security Equipment Action Group. These groups work together to avoid duplication of effort and when applicable ensure systems integration and promote interoperability and sustainability.

This PE can fund travel to support the requirements of this program.

This appropriation will finance 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 (systematic study directed toward fuller scientific knowledge or understanding of the subject studied), development (systematic use of the knowledge and understanding gained from research, for the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes) and test and evaluation efforts.

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Title: Detection and Assessment	5.898	5.756	5.559
Description: The ability to detect an adversary and assess their intentions is a basic physical security tenant. This capability area will design equipment to identify and warn of unauthorized access to a specified area or installation as well as equipment related to the notification and identification of explosive threats or hazards.			
FY 2012 Accomplishments: • Successfully developed the technology to display and identify friend or foe information. • Tested advanced seismic sensors configured in arrays for detecting, identifying, and tracking targets of interest on land, sea and air. • Improved the performance of sonar technology by lowering its false alert rate on nuisance targets, increasing its probability of detection for manlike intruders and increasing its detection and classification capability against unmanned underwater vehicles. • Reduced nuisance and false alarm rates and improve automatic human swimmer / diver discrimination. • Long-range imaging sensor to operate with a sonar system to identify divers at significant ranges in the underwater environment. • Designed optimal active sonar functionality in ultra-shallow water environments. • Provided a shoreline, perimeter, enclave detection barrier. • Developed early warning and persistent surveillance/assessment utilizing video motion sensing, audio tracking and seismic detection capabilities. • Increased surveillance and assessment of activity at all hours and in locations that can be on the edge or outside of the facility perimeter. • Interrupted adversaries by analyzing activity in advance of a breach of a defined restricted area boundary. • Provided All-weather surveillance sensor and the ability to classify and identify targets.			
FY 2013 Plans: • Conduct Explosive Detection Equipment testing (Sensor Fusion: Raman and Infrared and Comparative Test & Evaluation of X-ray technology) • Develop wide-area, long-range, foliage, seismic and radiological detection capability (both fixed & mobile) • Develop waterside detection & tracking capability (underwater & land-water interface) • Conduct fence Sensors & Cold Weather Testing			
FY 2014 Plans: • Conduct Explosive Detection Equipment testing (Sensor Fusion: Raman and Infrared and Comparative Test & Evaluation of X-ray technology) • Develop wide-area, long-range, foliage, seismic and radiological detection capability (both fixed & mobile)			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
• Develop waterside detection & tracking capability (underwater & land-water interface) • Conduct fence Sensors & Cold Weather Testing			
Title: Access Controls	4.218	3.015	2.912
Description: Controlling access to safeguard personnel and their families and to prevent unauthorized access to critical infrastructure and materials is paramount. This capability area will focus on programs and processes related to the validity and verification of individuals entering or already within a facility. ***FY 2012 Accomplishments:*** • Determined how technology and procedures can be integrated to minimize an insider threat to intentionally exceed or misuse an authorized level of access to nuclear materials or weapons. • Developed interruption methods to provide immediate, semi-lethal effect on the interior of structures containing nuclear resources without any additional specialized equipment. • Conducted Behavioral Analysis table top exercise. • Conducted Defense Installation Access Control demonstrations in operational environments. ***FY 2013 Plans:*** • Advance technology and procedures to minimize an insider threat to intentionally exceed or misuse an authorized level of access to nuclear materials or weapons. • Develop interruption methods to provide immediate, semi-lethal effect on the interior of structures containing nuclear resources without any additional specialized equipment. • Transition Defense Installation Access Control to system development and demonstration activities. ***FY 2014 Plans:*** • Develop Protective Aircraft Structure Internal Denial Capability • Identify Marine Mammal System Delay – Final Denial Enhancement Capability • Determine Methods to Delay/Deny Access to Airborne Launch Control System			
Title: Installation and Transport Security	5.898	5.995	5.790
Description: Robust installation and transport security are vital to preventing a weapon of mass destruction attack or the unauthorized access to key assets such as nuclear weapons and special nuclear material. This capability area will focus on programs and equipment intended to improve the physical security profile of fixed sites and facilities, as well as critical items while in-transit. ***FY 2012 Accomplishments:***			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
• Evaluated detection options and response capabilities, to include the full spectrum of non-lethal to lethal tactical weapon systems, to protect personnel and assets against the terrorist threat in a waterside security environment. • Developed persistent surveillance, intrusion detection, explosive detection, entry denial, acoustic hailing, autonomous unmanned systems, chemical, biological, radiological, nuclear, and high-explosive and associated functions. ***FY 2013 Plans:*** • Determine if the radar technology can be successfully modified for operation in a cluttered environment while providing extended area protection against direct trajectory stand-off threats. • Assess the ability of electronic warfare sensor to perform off-axis defeats against standoff direct-fired threats. • Establish a semi-permanent installation or relocatable short-term and rapidly installed perimeter security system. • Proof of concept for detection options and response capabilities previously identified, to include the full spectrum of non-lethal to lethal tactical weapon systems, to protect personnel and assets against the terrorist threat in a waterside security environment. • Proof of concept for persistent surveillance, intrusion detection, explosive detection, entry denial, acoustic hailing, autonomous unmanned systems, chemical, biological, radiological, nuclear, and high-explosive and associated functions. • Design a software baseline that brings all of the Tactical Automated Security System software versions back under Government configuration management and control. • Develop a low frequency, single crystal-based, non-lethal to lethal scalable transducer capable of emitting acoustic energy signal. ***FY 2014 Plans:*** • Develop a Defense Security Enterprise Architecture that provides a common framework and standards for security domains to share information on a near real-time basis within DoD and with other government agencies. • Develop an improved electro-optical sensor for the US Navy Spike Weapon System.			
Title: Storage and Safeguards ***Description:*** Properly securing critical assets to prevent access by unauthorized persons and implementing control measures that ensure access is limited to authorized persons is the foundation of physical security. This capability area will focus on equipment (e.g., locks, doors, etc.) designed to delay or stop unauthorized entry / access to a specified / localized area. ***FY 2012 Accomplishments:*** • Identified material accounting, inventory, and tracking methods using modern technologies to strengthen nuclear material safeguards and controls. • Developed options for intercontinental ballistic missile launcher closure door/lock mechanism upgrades to improve delay features.	1.788	2.314	2.235

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
• Evaluated the intercontinental ballistic missile security system to include access delay features, intrusion detection systems, and response forces. • Explored interior denial options for the intercontinental ballistic missile launch facility and develop recommendations based on weapon system impact, cost and overall security performance. ***FY 2013 Plans:*** • Advance material accounting, inventory, and tracking methods using modern technologies to strengthen nuclear material safeguards and controls. • Evaluate options for intercontinental ballistic missile launcher closure door/lock mechanism upgrades to improve delay features. • Identify solutions for gaps in intercontinental ballistic missile security system to include access delay features, intrusion detection systems, and response forces. • Test interior denial options for the intercontinental ballistic missile launch facility and develop recommendations based on weapon system impact, cost and overall security performance. ***FY 2014 Plans:*** • Develop specifications for Ordnance Storage and Operating Facilities that addresses explosives safety and physical security design requirements. • Design a Semi-Hardened Prime Nuclear Air Force Secure Transport Container. • Develop specifications for portable containers for Arms, Ammunition & Explosives that increase primary denial of assets located in expeditionary and temporary storage facilities and open storage areas.			
Title: Prevention ***Description:*** The security procedures taken to discourage an adversary from accessing weapons of mass destruction or gaining unauthorized access to critical assets are at the heart of prevention. This capability area will focus on broad spectrum, generic efforts which have the ability to influence multiple areas. ***FY 2012 Accomplishments:*** • Conducted effectiveness analyses to identify the weapon system combinations that offer the most cost-effective approach to counter those threats. • Identifed military, commercial and homemade explosives by integrating two identification technologies into one handheld rugged system. • Provided federal physical security decision-makers the opportunity to observe and become familiar with commercial-off-the-shelf force protection equipment available for procurement.	5.769	8.094	7.817

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
• Qualified for procurement an array of Commercial Off-The-Shelf (COTS) intrusion detection and assessment equipment that addresses capability gaps. • Created a non-ionizing personnel scanner that can detect threats on the body in a high throughput environment. • Integrated security system components via wireless communications with high security over long ranges, without repeaters. • Planned for the Force Protection Equipment Demonstration IX. ***FY 2013 Plans:*** • Support bi-lateral engagements for the successful DoD participation in Exercise Opal Tiger. • Establish a Global Initiative to Combat Nuclear Terrorism Strategic Engagement Plan to ensure an effective and efficient DoD participation in radiation detection and forensics activities. • Develop Inventory Management curriculum in conjunction with National Nuclear Security Administration • Improve test and standard reference materials for National Technical Nuclear Forensics simulation and exercise support. • Support Physical Security Modeling and simulation support for curriculum development and support in conjunction with Global Nuclear Lockdown efforts at Internationals Centers of Excellence. • Understand air assault threats and use modeling & simulation to conduct effectiveness analyses to identify the weapon system combinations that offer the most cost-effective approach to counter those threats. • Identify military, commercial and homemade explosives by integrating two identification technologies into one handheld rugged system. • Provide federal physical security decision-makers the opportunity to observe and become familiar with commercial-off-the-shelf force protection equipment available for procurement. • Qualify for procurement an array of commercial off-the-shelf intrusion detection and assessment equipment that addresses capability gaps. • Create a non-ionizing personnel scanner that can detect threats on the body in a high throughput environment. • Integrate security system components via wireless communications with high security over long ranges, without repeaters. • Execute Force Protection Equipment Demonstration IX. ***FY 2014 Plans:*** • Expand engagement opportunities with international partners in Nuclear Security. • Develop nuclear threat-related scenarios & use cases to frame Countering Nuclear Threat situational awareness development. • Conduct gap analysis between Global Threat Reduction Initiative and Cooperative Threat Reduction to ensure all requirements are met for Global Nuclear Lockdown.			
Title: Decision Support Systems	4.895	5.414	5.761

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Description: Decision support systems serve the management, operations, and planning levels of the DoD physical security enterprise to help to make decisions, which may be rapidly changing and not easily specified in advance. This capability area will focus on command and control equipment and projects related to the creation and enhancement of common operating pictures, and the establishment of common architectures / interface standards. ***FY 2012 Accomplishments:*** • Integrated sensors, sensor systems and unmanned systems with automated fusion capabilities to populate available Common Operating Pictures (COP) with in-depth security, surveillance, and response data for fixed and semi-fixed/expeditionary elements. • Provided DoD and industry the means to achieve Physical Security Equipment interoperability through standards and interface specifications. • Designed the framework for the collection and consolidation of data from disparate small to large security systems. ***FY 2013 Plans:*** • Advance Integration of sensors, sensor systems and unmanned systems with automated fusion capabilities to populate available Common Operating Pictures (COP) with in-depth security, surveillance, and response data for fixed and semi-fixed/expeditionary elements. • Provide DoD and industry the means to achieve Physical Security Equipment interoperability through standards and interface specifications. • Design the framework for the collection and consolidation of data from disparate small to large security systems. • Train and demonstrate the ability for marine mammal to perform a 24/7 autonomous swimmer/diver detection and localization mission. ***FY 2014 Plans:*** • Develop capability to ensure threat alert and response systems are interoperable with equipment used by the DoD and mutual aid partners in the local communities. • Provide a backbone extending command and control and situational awareness within, between, and out to the edges of the missile launch facility complex.			
Title: Analytical Support ***Description:*** This capability area will focus on studies related to physical security topics and operational and management efforts related to day-to-day activities of the DoD Physical Security Equipment/Countering Nuclear Threats RDT&E Program. ***FY 2012 Accomplishments:*** • Conducted test and evaluation efforts for physical security equipment	1.326	2.646	4.369

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
• Conducted live-fire and modeling tests of selected weapons, perform analysis, and develop policy requirements based on findings. • Qualified, for procurement, an array of COTS intrusion detection and assessment equipment that meets identified Integrated Base Defense Security Systems capability and sustainment gaps. ***FY 2013 Plans:*** • Continue to conduct test and evaluation efforts for physical security equipment (PSE) • Continue to conduct live-fire and modeling tests of selected weapons, perform analysis, and develop policy requirements based on findings. • Continue to qualify, for procurement, an array of Commercial Off-The-Shelf (COTS) intrusion detection and assessment equipment that meets identified Integrated Base Defense Security Systems capability and sustainment gaps. ***FY 2014 Plans:*** • Provide DOD and industry the means to achieve PSE interoperability through the Security Equipment Integration Working Group • Develop a comprehensive Physical Security Enterprise Test & Evaluation Program • Conducts analyses and review of requirements, evaluates proposed RDT&E solutions and recommends priorities for the integrated investment portfolio			
Accomplishments/Planned Programs Subtotals	29.792	33.234	34.443

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

The program performance metrics are established/approved through the DoD Physical Security Enterprise and Analysis Group (PSEAG). The cost, schedule and technical progress is reviewed at quarterly PSEAG meetings. Performance variances are addressed and corrective action(s) is(are) implemented as necessary.

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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Base Defense	Sub Allot	PM-FPS:Ft Belvoir, VA	5.850	4.688		2.323		-		-		-	0.000	12.861	12.861
Defense Installation Access Control	Various	Various performers:Various locations	7.150	4.065		2.500		-		-		-	0.000	13.715	13.715
Countering Nuclear Threats	Various	Various performers:Various locations	1.400	2.084		2.400		2.400		-		2.400	0.000	8.284	8.284
Force Protection Equipment Demonstration	Sub Allot	PM-FPS:Fort Belvoir, VA	1.837	0.500		-		-		-		-	0.000	2.337	2.337
Integrated Waterside Security	MIPR	Various performers:Various locations	0.700	0.922		-		1.000		-		1.000	0.000	2.622	2.622
Shipboard Security Containers	MIPR	NAVFAC ESC:Pt. Hueneme	0.480	0.480		-		-		-		-	0.000	0.960	0.960
Ordnance Storage and Handling Facilities	MIPR	NAVFAC ESC:Pt. Hueneme	0.400	0.400		0.250		-		-		-	0.000	1.050	1.050
Shoreline Monitoring System	MIPR	NAVFAC ESC:Pt. Hueneme	2.456	0.750		-		-		-		-	0.000	3.206	3.206
Project JIGSAW	MIPR	SPAWAR Atlantic:Charleston, SC	1.500	0.310		-		-		-		-	0.000	1.810	1.810
Video Management System	Sub Allot	Force Protection Branch ESC/ HSS:Hanscom AFB, MA	0.649	1.526		-		-		-		-	0.000	2.175	2.175
Interior Video Motion Detection	Sub Allot	Force Protection Branch ESC/ HSS:Hansocm AFB, MA	0.455	0.605		-		-		-		-	0.000	1.060	1.060
Wide Area Detection	Sub Allot	Force Protection Branch ESC/	0.850	0.875		0.716		-		-		-	0.000	2.441	2.441

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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		HSS:Hanscom AFB, MA													
Insider Threat	IA	Applied Research Labs: University of Texas:Austin, TX	1.000	-		-		-		-		-	0.000	1.000	1.000
Defense Security Enterprise Architecture	Various	Various performers:Various locations	0.000	0.750		2.500		2.500		-		2.500	0.000	5.750	5.750
Joint Force Protection Threat Alert & Response System	MIPR	Various performers:Various locations	0.000	0.507		2.000		2.000		-		2.000	0.000	4.507	4.507
Long Range Threat Identification Sonar	MIPR	SPAWAR Atlantic:Charleston, SC	0.000	0.875		0.640		-		-		-	0.000	1.515	1.515
Missile Field Defense Force C3 / Situational Awareness	MIPR	SPAWAR Atlantic:Charleston, SC	0.000	0.000		0.850		1.000		-		1.000	0.000	1.850	1.850
Foliage Penetrating Technology Evaluation	MIPR	SPAWAR Atlantic:Charleston, SC	0.000	0.000		0.200		0.650		-		0.650	0.000	0.850	0.850
Portable Detection System for Select Environments	Various	ICBM System Program Office:Hill AFB, UT	0.000	0.000		0.260		0.500		-		0.500	0.000	0.760	0.760
Semi-Hardened PNAF Secure Transport Container	Various	Various Performers:Various Locations	0.000	0.000		0.414		0.500		-		0.500	0.000	0.914	0.914
Standoff Weapon Replacement for Internal Denial	Various	Various Performers:Various Locations	0.000	0.000		0.500		0.500		-		0.500	0.000	1.000	1.000
Launcher Closure Door Upgrade	MIPR	ICBM System Program Office :Hill AFB, UT	0.000	0.000		0.350		2.000		-		2.000	0.000	2.350	2.350

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APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P162: *Nuclear and Conventional Physical Security*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Land-Water Interface Detection and Tracking	MIPR	SPAWAR Atlantic:Charleston, SC	0.000	0.000		0.168		0.750		-		0.750	0.000	0.918	0.918
Marine Mammal System Delay – Final Denial Enhancement Capability	MIPR	Various Performers:Various Locations	0.000	0.000		0.532		1.000		-		1.000	0.000	1.532	1.532
Airborne Launch Control System Interruption	Various	ICBM System Program Office:Hill AFB, UT	0.000	0.000		0.250		0.750		-		0.750	0.000	1.000	1.000
Missile Defense Security (Interceptor)	TBD	TBD:TBD	0.000	0.000		0.500		-		-		-	0.000	0.500	0.500
Weapon Storage Containers	MIPR	NAVFAC ESC:Pt. Hueneme	0.000	0.000		0.250		0.500		-		0.500	0.000	0.750	0.750
Ground-Based Operational Surveillance System	Sub Allot	PM-FPS:Ft Belvoir, VA	0.000	0.000		1.000		1.000		-		1.000	0.000	2.000	2.000
Radiological Detection System	Various	Various Performers:Various Locations	0.000	0.000		1.400		2.300		-		2.300	0.000	3.700	3.700
Access Controls	Various	Various Performers:Various Locations	0.000	1.044		1.730		1.528		-		1.528	0.000	4.302	4.302
Installation & Transport Security	Various	Various Performers:Various Locations	0.000	1.044		1.755		1.553		-		1.553	0.000	4.352	4.352
Prevention	Various	Various Performers:Various Locations	0.000	1.044		1.755		1.553		-		1.553	0.000	4.352	4.352
Decision Support	Various	Various Performers:Various Locations	0.000	1.044		1.755		1.553		-		1.553	0.000	4.352	4.352

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P162: *Nuclear and Conventional Physical Security*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Storage & Safeguards	Various	Various Performers:Various Locations	0.000	1.045		1.756		1.552		-		1.552	0.000	4.353	4.353
Detection & Assessment	Various	Various Performers:Various Locations	0.000	1.044		0.355		1.533		-		1.533	0.000	2.932	2.932
		Subtotal	24.727	25.602		29.109		28.622		0.000		28.622	0.000	108.060	108.060

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Security Equipment Integration Working Group	MIPR	SPAWAR Atlantic:Charleston, SC	2.602	1.000		1.000		1.000		-		1.000	0.000	5.602	5.602
NM Support Contract	PO	Washington Headquarters Services:Washington DC	2.080	1.090		1.100		1.200		-		1.200	0.000	5.470	5.470
Physical Security Requirements Group Support	MIPR	Various Performers:Various Locations	0.000	1.000		0.700		0.700		-		0.700	0.000	2.400	2.400
PSEP Technical Advisor	MIPR	SPAWAR Atlantic:Charleston, SC	0.900	0.300		0.300		0.300		-		0.300	0.000	1.800	1.800
		Subtotal	5.582	3.390		3.100		3.200		0.000		3.200	0.000	15.272	15.272

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P162: *Nuclear and Conventional Physical Security*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Wide Area Surveillance Thermal Imager	Sub Allot	Force Protection Branch ESC/ HSS:Hanscom AFB, MA	0.000	0.000		0.250		0.250		-		0.250	0.000	0.500	0.500
Sensor Fusion: IR and Raman	MIPR	NAVEOD Tech Div:Indian Head, MD	1.600	0.800		0.500		-		-		-	0.000	2.900	2.900
Enhance IMS Systems	MIPR	NAVEOD Tech Div:Indian Head, MD	1.700	-		0.000		-		-		-	0.000	1.700	1.700
Long Range Thermal Imager	Sub Allot	Force Protection Branch ESC/ HSS:Hanscom AFB, MA	0.000	0.000		0.250		0.000		-		0.000	0.000	0.250	0.250
Fence Sensors & Cold Weather Testing	Sub Allot	Force Protection Branch ESC/ HSS:Hanscom AFB, MA	0.000	0.000		0.000		2.346		-		2.346	0.000	2.346	2.346
		Subtotal	3.300	0.800		1.000		2.596		0.000		2.596	0.000	7.696	7.696

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
RDT&E Travel	TBD	Washington Headquarters Services:Washington DC	0.000	0.000		0.025		0.025		-		0.025	0.000	0.050	0.050
		Subtotal	0.000	0.000		0.025		0.025		0.000		0.025	0.000	0.050	0.050

	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	33.609	29.792		33.234		34.443		0.000		34.443	0.000	131.078	131.078

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P162: *Nuclear and Conventional Physical Security*	

	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

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P164: *CNT Rad/Nuc Passive Defense*	

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
P164: *CNT Rad/Nuc Passive Defense*	0.000	0.000	0.000	1.985	-	1.985	0.000	0.000	0.000	0.000	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 establishes a Defense-wide Countering Nuclear Threats (CNT) Materiel development Program. The CNT acquisition strategy directly applies to a Joint requirement for CNT materiel development and addresses the materiel and sustainment gaps for general purpose Joint Forces, including the US Army 20th Support Command and Navy Visit, Board, Search, and Seizure, as well as the Technical Support Groups; NIMBLE ELDER and the US Special Operations Command where required.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Title: CNT Rad/Nuc Passive Defense	0.000	0.000	1.985
Description: Advanced Development of Joint Radiological and Nuclear passive defense systems ***FY 2014 Plans:*** Development of Joint Radiological and Nuclear passive defense systems (i.e. Man Portable Detection System and the Joint Personal Dosimeter)			
Accomplishments/Planned Programs Subtotals	0.000	0.000	1.985

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

The program performance metrics are established/approved through the Countering Nuclear Threats Program Manager. The cost, schedule and technical progress is reviewed on a quarterly basis. Performance variances are addressed and corrective action(s) is(are) implemented as necessary.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P164: *CNT Rad/Nuc Passive Defense*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CNT Rad/Nuc Passive Defense Development	TBD	TBD:TBD	0.000	0.000		0.000		1.985		-		1.985	0.000	1.985	1.985
		Subtotal	0.000	0.000		0.000		1.985		0.000		1.985	0.000	1.985	1.985

	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		1.985		0.000		1.985	0.000	1.985	1.985

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P165: *National Technical Nuclear Forensics Systems*	

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
P165: *National Technical Nuclear Forensics Systems*	0.000	0.000	0.000	27.213	-	27.213	14.572	14.215	13.000	13.500	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

Nuclear forensics is the thorough collection, analysis and evaluation of radiological and nuclear material in a pre-detonation state and post-detonation radiological or nuclear materials, devices and debris, as well as the immediate effects created by a nuclear detonation. The ability to identify the source of nuclear material from radioactive debris is critical to our national defense and security. Swift and accurate forensic and attribution (identification) capabilities are vital to developing an appropriate national response to a nuclear event and preventing future attacks in a timely manner.

Nuclear Terrorism is one of the most significant and pressing threats identified by national leadership. A credible nuclear forensics program is essential to preventing nuclear terrorism by deterring nations from sponsoring nuclear terrorism. During the Deputy Management Advisory Group process shortfalls and resources to close these gaps were identified and supported by the Deputy Secretary of Defense. The purpose of this program is to develop systems such as ground based Prompt Diagnostic sensors and Particulate Airborne Collection Systems to provide timely and accurate information to national leadership in the area of Nuclear Forensics.

Per DoDI 2060.04 OSD AT&L NCB is the program lead for the Department of Defense in Nuclear Forensics. NCB represents DoD interests in all areas of nuclear forensics but focuses heavily on post-detonation applications due to Presidential guidance assigning the department the lead role in develop, providing, and maintaining post detonation Nuclear Forensics capability.

This PE can fund travel to support the requirements of this program.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Title: National Technical Nuclear Forensics Systems	0.000	0.000	27.213
Description: Advanced development of ground based diagnostic and collection systems			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P165: *National Technical Nuclear Forensics Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Development for a Particulate Airborne Collection System that allows additional airborne sampling flexibility to reduce the risk in providing samples for the forensics process. Installation, testing, and operational support and integration of ground based Prompt Diagnostic systems in various key metropolitan areas.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	27.213

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

The program performance metrics are established/approved through the Countering Nuclear Threats Program Manager. The cost, schedule and technical progress is reviewed on a quarterly basis. Performance variances are addressed and corrective action(s) is(are) implemented as necessary. This is new program focusing on advanced development to meet critical needs.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603161D8Z: *Nuclear and Conventional Physical Security/Countering Nuclear Threats*	PROJECT P165: *National Technical Nuclear Forensics Systems*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
National Technical Nuclear Forensics Systems Development	TBD	TBD:TBD	0.000	0.000		0.000		27.188		-		27.188	0.000	27.188	27.188
		Subtotal	0.000	0.000		0.000		27.188		0.000		27.188	0.000	27.188	27.188

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
RDT&E Travel	TBD	Washington Headquarters Services:Washington DC	0.000	0.000		0.000		0.025		-		0.025	0.000	0.025	0.025
		Subtotal	0.000	0.000		0.000		0.025		0.000		0.025	0.000	0.025	0.025

	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		27.213		0.000		27.213	0.000	27.213	27.213

Remarks