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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Office of the Secretary Of Defense	Date: February 2015
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Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide I</i> BA 5: <i>System Development & Demonstration (SDD)</i>					PE 0604161D8Z <i>I Nuclear and Conventional Physical Security/Countering Nuclear Threats</i>							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	26.804	7.859	7.925	8.800	-	8.800	9.390	7.396	6.998	7.138	Continuing	Continuing
P163: <i>Nuclear and Conventional Physical Security</i>	26.804	6.843	3.947	5.128	-	5.128	6.818	7.396	6.998	7.138	Continuing	Continuing
P042: <i>CNT Rad/Nuc Passive Defense SDD</i>	0.000	1.016	3.978	3.672	-	3.672	2.572	-	-	-	Continuing	Continuing

Note

The FY 2016 funding request was reduced by \$2.000 million to account for the availability of prior year execution balances.

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 system development and demonstration 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 program will develop systems that are producible, supportable, and affordable and to demonstrate system integration, interoperability, and utility prior to full-rate production. The projects under the PE become technology insertions into existing programs or 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), 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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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604161D8Z I <i>Nuclear and Conventional Physical Security/Countering Nuclear Threats</i>
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B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	8.109	7.936	6.204	-	6.204
Current President's Budget	7.859	7.925	8.800	-	8.800
Total Adjustments	-0.250	-0.011	2.596	-	2.596
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.250	-			
• Internal realignment	-	-	4.621	-	4.621
• FFRDC	-	-0.011	-	-	-
• Economic Assumption	-	-	-0.025	-	-0.025
• DoD Realignment	-	-	-2.000	-	-2.000

Change Summary Explanation

Internally realigned Procurement funding to this RDT&E Program Element to address additional advanced development for the Joint Personal Dosimeter

NOTE: The FY 2016 funding request was reduced by \$2.000 million to account for the availability of prior year execution balances.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense										Date: February 2015		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats				Project (Number/Name) P163 / Nuclear and Conventional Physical Security			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
P163: Nuclear and Conventional Physical Security	26.804	6.843	3.947	5.128	-	5.128	6.818	7.396	6.998	7.138	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 system development and demonstration 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 program will develop systems that are producible, supportable, and affordable and to demonstrate system integration, interoperability, and utility prior to full-rate production. The projects under the PE become technology insertions into existing programs or 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), 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. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Detection and Assessment	2.372	1.354	3.138

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>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.</p> <p>FY 2014 Accomplishments:</p> <ul style="list-style-type: none"> • Developed prototype for US Navy Spike Weapon System, Improved Electro-optical Seeker • Conducted R&D for the Ground-Based Operational Surveillance System - Expeditionary <p>FY 2015 Plans:</p> <ul style="list-style-type: none"> • Test & Evaluation: Comparative Evaluation of Trace Detection Systems for Use at an Entry Control • Develop Millimeter Wave Asymmetric Threat Detection • Develop Sonar Propagation Acoustics Model Transition to Operational Initial Capability • Develop Hand-Held Explosive Detection Equipment for Maritime Operations <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> • Continue to develop Millimeter Wave Asymmetric Threat Detection • Continue to develop Sonar Propagation Acoustics Model Transition to Operational Initial Capability • Continue to develop Hand-Held Explosive Detection Equipment for Maritime Operations 				
<p>Title: Access Controls</p> <p>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.</p> <p>FY 2014 Accomplishments:</p> <ul style="list-style-type: none"> • Demonstrated the ability of existing marine mammals to intercept human targets and attach specially developed hardware to delay and deny access to critical resources. • Provided a continuous evaluation solution for DoD personnel security able to support the automated, continuous evaluation of cleared personnel against the Administrative Guidelines and other security risk management criteria, and alert appropriate to supplement and eventually replace periodic re-evaluations <p>FY 2015 Plans:</p> <ul style="list-style-type: none"> • Develop an access control capability that leverages information housed in local law enforcement databases <p>FY 2016 Plans:</p>		2.210	0.660	1.010

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
• Continue to develop an access control capability that leverages information housed in local law enforcement databases				
Title: Installation and Transport Security 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 2014 Accomplishments: <ul style="list-style-type: none"> • Developed improved and common situational awareness to link shipboard security teams and shore-based security and response boats. • Conducted demonstration 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. FY 2015 Plans: <ul style="list-style-type: none"> • Integrate 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. 		0.191	0.871	-
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 2014 Accomplishments: <ul style="list-style-type: none"> • Developed RFID Tagging for Items in Extreme Cold Storage (CONUS) FY 2015 Plans: <ul style="list-style-type: none"> • Develop RFID Tagging for Items in Extreme Cold Storage (OCONUS) 		0.220	0.164	-
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.		0.339	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
FY 2014 Accomplishments: • Developed and hosted Nuclear Testing, Diagnostics, Forensics and Stockpile Stewardship Course				
Title: Decision Support Systems 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 2014 Accomplishments: • Developed capability to ensure threat alert and response systems are interoperable with equipment used by the DoD and mutual aid partners in the local communities FY 2015 Plans: • Develop a Defense Security Enterprise Architecture that would link/harmonize disparate and sub-optimal capabilities utilizing existing and emerging Component capabilities to better close known physical security gaps FY 2016 Plans: • Continue to develop a Defense Security Enterprise Architecture that would link/harmonize disparate and sub-optimal capabilities utilizing existing and emerging Component capabilities to better close known physical security gaps		0.918	0.569	0.980
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 Enterprise RDT&E Program. FY 2014 Accomplishments: • Conducted physical security test and evaluation efforts • Provided DoD and industry the means to achieve physical security interoperability FY 2015 Plans: • Conduct physical security test and evaluation efforts • Provide DOD and industry the means to achieve PSE interoperability		0.593	0.329	-
Accomplishments/Planned Programs Subtotals		6.843	3.947	5.128

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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 Office of the Deputy Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs / Nuclear Matters. The cost, schedule and technical progress of each project is reviewed at quarterly PSEAG. Performance variances are addressed and corrective action is implemented as necessary.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Office of the Secretary Of Defense **Date:** February 2015

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P163 / Nuclear and Conventional Physical Security
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Hand-Held Explosive Detection Equipment for Maritime Operations	MIPR	NAVEODTECH : Indian Head, MD	-	0.840		0.310		-		-		-	-	-	-
Sonar Propagation Acoustics Model Transition to Operational Initial Capability	MIPR	SPAWAR Pacific : San Diego, CA	-	0.642		0.450		-		-		-	-	-	-
RFID Tagging for Items in Extreme Cold Storage	MIPR	Army Medical Research Institute of Infectious Diseases : Ft. Detrick, MD	-	0.462		0.167		-		-		-	-	-	-
Hailing Acoustic, Laser and Light Tactical System	MIPR	NSWC, DAHLGREN DIVISION : Dahlgren, VA	0.300	1.682		-		-		-		-	-	-	-
Joint Detection & Assessment	TBD	TBD : TBD	-	-		-		2.283		-		2.283	-	-	-
Radar Processing Dynamic Filter	MIPR	SPAWAR Pacific : San Diego, CA	-	0.587		-		-		-		-	-	-	-
Joint Explosive Detection Equipment	TBD	TBD : TBD	-	-		-		1.191		-		1.191	-	-	-
Physical Security Enterprise RDT&E	Various	Various : Various	23.280	-		-		-		-		-	-	-	-
Subtotal			23.580	4.213		0.927		3.474		-		3.474	-	-	-

Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Nuclear Matters Contract Support	MIPR	Washington Headquarters Services : Arlington, VA	-	-		0.650		-		-		-	-	-	-

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Appropriation/Budget Activity 0400 / 5						R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats				Project (Number/Name) P163 / Nuclear and Conventional Physical Security					
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Applied Research Laboratories: University of Texas	MIPR	Naval Sea Systems Command : Washington Navy Yard, DC	-	0.328		-		-		-		-	-	-	-
Subtotal			-	0.328		0.650		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Millimeter Wave Asymmetric Threat Detection	MIPR	NAVEODTECH : Indian Head, MD	-	-		0.220		1.344		-		1.344	-	-	-
Comparative Evaluation of Trace Detection Systems for Use at an Entry Control	MIPR	NAVEODTECH : Indian Head, MD	-	-		0.869		-		-		-	-	-	-
Smith Detection's HazMatID Elite and HazMatID 360	MIPR	NAVEODTECH : Indian Head, MD	0.384	0.417		-		-		-		-	-	-	-
Subtotal			0.384	0.417		1.089		1.344		-		1.344	-	-	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Security Equipment Integration Working Group	MIPR	SPAWAR Atlantic : Charelstion, SC	2.131	0.963		0.750		-		-		-	-	-	-
ePSEAG (program management tool) / PSEAG Website	MIPR	AF Civil Engineering Center : Panama City, FL	0.558	0.464		0.531		0.310		-		0.310	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Office of the Secretary Of Defense												Date: February 2015			
Appropriation/Budget Activity 0400 / 5						R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats						Project (Number/Name) P163 / Nuclear and Conventional Physical Security			

Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
JASON Study	MIPR	Washington Headquarters Services : Arlington, VA	0.151	0.458		-		-		-		-	-	-	-
Subtotal			2.840	1.885		1.281		0.310		-		0.310	-	-	-

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	26.804	6.843	3.947	5.128	-	5.128	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense

Date: February 2015

Appropriation/Budget Activity

0400 / 5

R-1 Program Element (Number/Name)

PE 0604161D8Z / Nuclear and
Conventional Physical Security/Countering
Nuclear Threats




Project (Number/Name)

P163 / Nuclear and Conventional Physical
Security














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-  Planned Actions
-  In-Progress Actions
-  Completed Actions

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Milestones

Milestones	Baseline Date	Current Date	Completed Date	FY 13			FY 14												FY 15			
				Q4			Q1			Q2			Q3			Q4			Q1			
				J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
Kickoff Meeting with Sponsor	8/1/2013	07/31/2013	07/31/2013																			
Draft PSPEC Developed	8/29/2013	08/29/2013	08/29/2013																			
PSPEC Finalized	10/14/2013	10/14/2013	10/14/2013																			
Initial Mechanical Design Completed	12/17/2013	2/06/2014†	2/06/2014																			
Initial Electrical Design Completed	1/13/2014	3/10/2014†	3/14/2014																			
Initial Unit Manufacturing and Assembly Completed	2/24/2014	3/17/2014	3/17/2014																			
Complete Quick Reference Guide	5/9/14	5/9/14	5/12/2014																			
Production Unit Manufacturing and Assembly Completed	5/9/14	6/25/2014*	6/30/2014																			
Deliver Developmental Test Report	5/30/2014	7/18/2014*															80% complete					
Deliver Environmental Test Report	4/18/2014	8/05/2014*															75% complete					
Deliver Technical Data Package	6/9/2014	8/26/2014																45% complete				
Prepare for and participate in the IWS-CD and collect system data	3/3/2014	9/26/2014																	25% complete			
Deliver report of IWS-CD results	10/1 /2014	12/13/2014																	0% complete			

† Small delay in design completion. Currently no effect is expected to subsequent milestones

* Date extended based on schedule estimate from environmental testing agent.

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
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LEGEND	
	Planned Actions
	In-Progress Actions
	Completed Actions

Maritime Handheld Explosive Detection (HHED) System Milestones

Milestones	Baseline Date	Current Date	Date Complete	FY 14												FY 15											
				Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
Funding Received	3/15/2014	3/15/2014	3/15/2014																								
Solicitation Preparation, Down Selection Testing and System Procurement	6/30/2014	9/30/2014																									
Test Preparation	6/30/2014	9/30/2014																									
Laboratory T&E	12/29/2014	3/27/2015																									
Environmental T&E	11/30/2014	2/28/2015																									
End User Evaluation and Field Testing	1/16/2015	5/31/2015																									
Test Report	4/1/2014	7/1/2015																									

PSEP Milestones:




- Completion of major phases, task items, or deliverables
- Decision/kill points, performance reviews, etc.
- Demonstrations/Events (Please provide start/end dates as depicted)
- *Please use this format. Minor changes acceptable (i.e. annotations)

Metrics

- Schedule metrics will be based off of the "Current" Date
- Changes of current dates need to be noted in issues/changes

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
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LEGEND	
	Planned Actions
	In-Progress Actions
	Completed Actions

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Radar Processing Dynamic Structure Filter

Milestones	Baseline Date	Current Date	Completed Date	FY 14								FY 15								FY 16							
				Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4	
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
Kickoff	08/04/14	08/04/14																									
Project Plan, Development Environ.																											
Algorithms Adapted																											
Verification & Validation																											
Findings Resolved																											
IV&V Complete																											
In-Situ Demonstration																											
ECO Complete																											
Project Complete																											



PSEP Milestones:

- Completion of major phases, task items, or deliverables
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LEGEND

Planned Actions

In-Progress Actions

Completed Actions

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Evaluation of Radio Frequency Identification (RFID) technology in biological specimen labels stored at ultra-low temperatures

Milestones

Milestones	Baseline Date	Current Date	Completed Date	FY 14												FY 15												FY 16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P163 / Nuclear and Conventional Physical Security	

LEGEND

-  Planned Actions
-  In-Progress Actions
-  Completed Actions

Sonar Propagation Acoustics Model Transition to Operational Initial Capability Milestones

Milestones	Baseline Date	Current Date	Complete d Date	FY 14												FY 15												FY 16												
				Q3			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
Kickoff Meeting Completed	5/28/2014	5/28/2014	5/28/2014																																					
Confidence Factor Testing Complete	12/30/14	12/30/14																																						
Custom Replica Testing Complete	12/30/14	12/30/14																																						
Joint (CF and CR) Testing Complete	12/30/14	12/30/14																																						
Model Review Study	12/30/14	12/30/14																																						
Assessment of Real-time implementation	2/16/15	2/16/15																																						
Software Development Complete	1/1/16	1/1/16																																						
Data Collection Complete	4/8/16	4/8/16																																						
Final Report Submitted	6/24/16	6/24/16																																						

PSEP Milestones:

- Completion of major phases, task items, or deliverables
- Decision/kill points, performance reviews, etc.
- Demonstrations/Events (Please provide start/end dates as depicted)
- *Please use this format. Minor changes acceptable (i.e. annotations)

Metrics

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense		Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / <i>Nuclear and Conventional Physical Security/Countering Nuclear Threats</i>	Project (Number/Name) P163 / <i>Nuclear and Conventional Physical Security</i>

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Detection and Assessment IPT



CAPABILITY

- Joint approach to Detection and Assessment portfolio
- Ensure focused and efficient use of limited resources
- Capability gap resolution
- Joint testing for Joint employment
- Inception to transition analysis on all projects to ensure fielding and sustainment for persistent employment

SIGNIFICANT ACCOMPLISHMENTS

- IPT Kickoff meeting scheduled 12 – 13 August

PROJECTED ACCOMPLISHMENTS

- IPT Kickoff Meeting scheduled 12 – 13 August, Lackland AFB, San Antonio, Texas

TRANSITION PLAN

- N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P163 / Nuclear and Conventional Physical Security	

LEGEND	
	Planned Actions
	In-Progress Actions
	Completed Actions

COTS EVALUATION OF GC/MS Milestones

Milestones	Baseline Date	Current Date	Complete d Date	FY 13												FY 14												FY 15					
				Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2		
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
Funding Received	10/1/2012	1/14/2013	1/14/2013																														
Planning and Preparation	1/11/2013	5/29/2013	5/29/2013																														
Procurement Process For Instrument	1/11/2013	6/12/2013	6/12/2013																														
Training on GC/MS	1/11/2013	8/14/2013	8/15/13																														
Evaluation of Sampling Accessories	3/19/2013	12/6/2013	2/2014																														
Develop Procedure for Analysis of Explosives	2/28/2013	12/24/2013	12/30/13																														
Assess the Procedure with other Individuals	4/10/2013	1/3/2014	3/2014																														
Review and Revise Procedure	3/29/2013	1/6/2014	1/28/14																														
Publish Report and Procedures	9/6/2013	2/14/2014	3/2014																														

PSEP Milestones:

- Completion of major phases, task items, or deliverables
- Decision/kill points, performance reviews, etc.
- Demonstrations/Events (Please provide start/end dates as depicted)
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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P163 / Nuclear and Conventional Physical Security	

LEGEND	
	Planned Actions
	In-Progress Actions
	Completed Actions

X-ray Fluorescence (XRF) and X-ray Diffraction (XRD) Comparative Test and Evaluation Milestones

Milestones	Baseline Date	Current Date	Complete d Date	FY 13												FY14												FY 15														
				Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4					
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
Market Research and System Selection	1/31/2013	1/31/2013	1/31/2013																																							
Test Readiness Review	2/18/2013	3/28/2013	3/28/2013																																							
X-Ray Safety Plan	3/8/2013	5/15/2013	5/15/2013																																							
Contract Manufacturer Participation	1/31/2013	6/7/2013	6/7/2013																																							
Attend System Training	1/28/2013	6/10/2013 & 7/3/2013	7/3/2013																																							
Test and Evaluation	7/5/2013	9/16/2013	11/15/2013																																							
Assess Progress	4/10/2013	8/14/2013	9/4/2013																																							
Post Test Review	8/14/2013	11/20/2013	12/9/2013																																							
Publish Test Report	10/29/2013	1/17/2014	2/2/2014																																							

PSEP Milestones:

- Completion of major phases, task items, or deliverables
- Decision/kill points, performance reviews, etc.
- Demonstrations/Events (Please provide start/end dates as depicted)
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Metrics









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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P163 / Nuclear and Conventional Physical Security	

LEGEND	
	Planned Actions
	In-Progress Actions
	Completed Actions

Sensor Fusion Milestones

Milestones	Baseline Date	Current Date	Complete d Date	FY 13												FY 14												FY 15														
				Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4					
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
Phase 1 – Requirements, Design Concept, and Technical Feasibility	10/22/12–3/31/13	N/A	10/22/12–4/30/13																																							
End of Phase 1 Report	3/31/13	N/A	4/30/13																																							
Phase 2 – Engineering Development and Prototyping	4/1/13–12/15/13	4/31/13–06/25/14	6/25/2014																																							
Solid Plastic Concept Model	6/1/13	N/A	5/17/13																																							
Preliminary Design Review (PDR)	6/1/13	N/A	5/28/13																																							
Critical Design Review/Final Thermo Report	Fall 2013	2/14/2014	2/14/14																																							
(Alpha) Prototype Delivery	12/15/13	12/31/13	12/31/13																																							
NSWC IHEODTD Testing	12/15/13–3/15/13	07/07/14–09/30/14																																								

PSEP Milestones:

- Completion of major phases, task items, or deliverables
- Decision/kill points, performance reviews, etc.
- Demonstrations/Events (Please provide start/end dates as depicted)
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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P163 / Nuclear and Conventional Physical Security	

LEGEND	
	Planned Actions
	In-Progress Actions
	Completed Actions

ACE-ID/HAZMATID Milestones

Milestones	Baseline Date	Current Date	Complete d Date	FY 14												FY 15												FY 16												
				Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
Procure systems for testing	3/3/14 to 6/16/14	4/14/14 to 7/30/14																																						
Procure supplies for testing	3/3/14 to 6/16/14	4/14/14 to 6/16/14																																						
Prepare test plan	3/3/14 to 5/12/14	4/1/14 to 8/18/14																																						
Test Readiness Review	4/28/14	8/15/14																																						
Laboratory Evaluation	6/25/14 to 9/9/14	8/18/14 to 10/17/14																																						
Field and User Evaluation	9/10/14 to 9/17/14	10/20/14 to 10/27/14																																						
Test Report	9/18/14 to 12/25/14	10/27/14 to 1/15/14																																						
Manufacturer Debrief	01/01/15	01/16/15																																						

PSEP Milestones:

- Completion of major phases, task items, or deliverables
- Decision/kill points, performance reviews, etc.
- Demonstrations/Events (Please provide start/end dates as depicted)
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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / <i>Nuclear and Conventional Physical Security/Countering Nuclear Threats</i>	Project (Number/Name) P163 / <i>Nuclear and Conventional Physical Security</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Detection & Assessment Integrated Process Team</i>				
Detection & Assessment Integrated Process Team	4	2014	4	2016
<i>Joint Explosive Detection Equipment</i>				
Joint Explosive Detection Equipment	1	2014	1	2020
<i>Hailing Acoustic, Laser and Light Tactical System</i>				
Hailing Acoustic, Laser and Light Tactical System	1	2014	1	2015
<i>Handheld Explosive Detection System for Maritime Environment</i>				
Handheld Explosive Detection System for Maritime Environment	2	2014	3	2015
<i>Radar Processing Dynamic Structure Filter</i>				
Radar Processing Dynamic Structure Filter	4	2014	4	2016
<i>Radio Frequency Identification Technology in Biological Specimen Labels</i>				
Radio Frequency Identification Technology in Biological Specimen Labels	2	2014	4	2015
<i>Sonar Propagation Acoustics Model Transition to Operational Initial Capability</i>				
Sonar Propagation Acoustics Model Transition to Operational Initial Capability	3	2014	3	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense										Date: February 2015		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats				Project (Number/Name) P042 / CNT Rad/Nuc Passive Defense SDD			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
P042: CNT Rad/Nuc Passive Defense SDD	-	1.016	3.978	3.672	-	3.672	2.572	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
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 2014	FY 2015	FY 2016	
Title: CNT Rad/Nuc Passive Defense									1.016	3.978	3.672	
Description: Advanced Development of Joint Radiological and Nuclear passive defense systems (i.e. Radiological Detection System and the Joint Personal Dosimeter).												
The Radiological Detection System will provide a ruggedized Radiation Detection, Indication, and Computation for real time gamma radiation monitoring and low energy x-ray, beta, alpha, and neutron detection.												
The Joint Personal Dosimeter will provide a joint solution to increase capability and reduce life-cycle costs.												
Both systems will address Operation TOMODACHI lessons learned for common, interoperable equipment with adequate sensitivity and common units of measure.												
FY 2014 Accomplishments: Developed of Joint Radiological and Nuclear passive defense systems (i.e. Radiological Detection System and the Joint Personal Dosimeter)												
FY 2015 Plans: Continue with the development of Joint Radiological and Nuclear passive defense systems (i.e. Radiological Detection System and the Joint Personal Dosimeter)												
FY 2016 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense		Date: February 2015	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / <i>Nuclear and Conventional Physical Security/Countering Nuclear Threats</i>	Project (Number/Name) P042 / <i>CNT Rad/Nuc Passive Defense SDD</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015
Continue with the development of Joint Radiological and Nuclear passive defense systems (i.e. Radiological Detection System and the Joint Personal Dosimeter)			
Accomplishments/Planned Programs Subtotals		1.016	3.978
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.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Office of the Secretary Of Defense													Date: February 2015		
Appropriation/Budget Activity 0400 / 5						R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats						Project (Number/Name) P042 / CNT Rad/Nuc Passive Defense SDD			

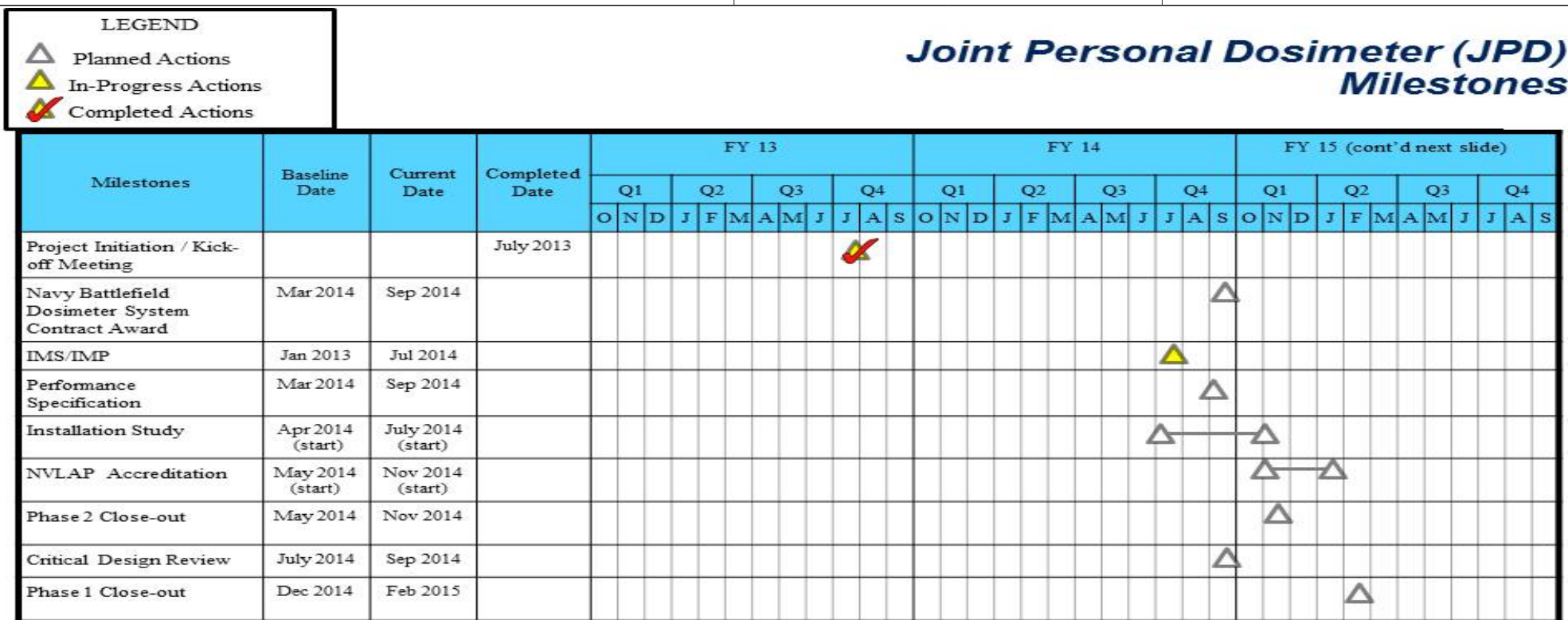
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Radiological Detection System	Sub Allot	Joint Product Manager - Rad / Nuc Defense : Aberdeen, MD	-	-		0.421		1.602		-		1.602	-	-	-
Joint Personal Dosimeter	Sub Allot	Joint Product Manager - Rad / Nuc Defense : Aberdeen, MD	-	1.016		3.557		2.070		-		2.070	-	-	-
Subtotal			-	1.016		3.978		3.672		-		3.672	-	-	-

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	1.016	3.978	3.672	-	3.672	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P042 / CNT Rad/Nuc Passive Defense SDD	



PSEP Milestones:

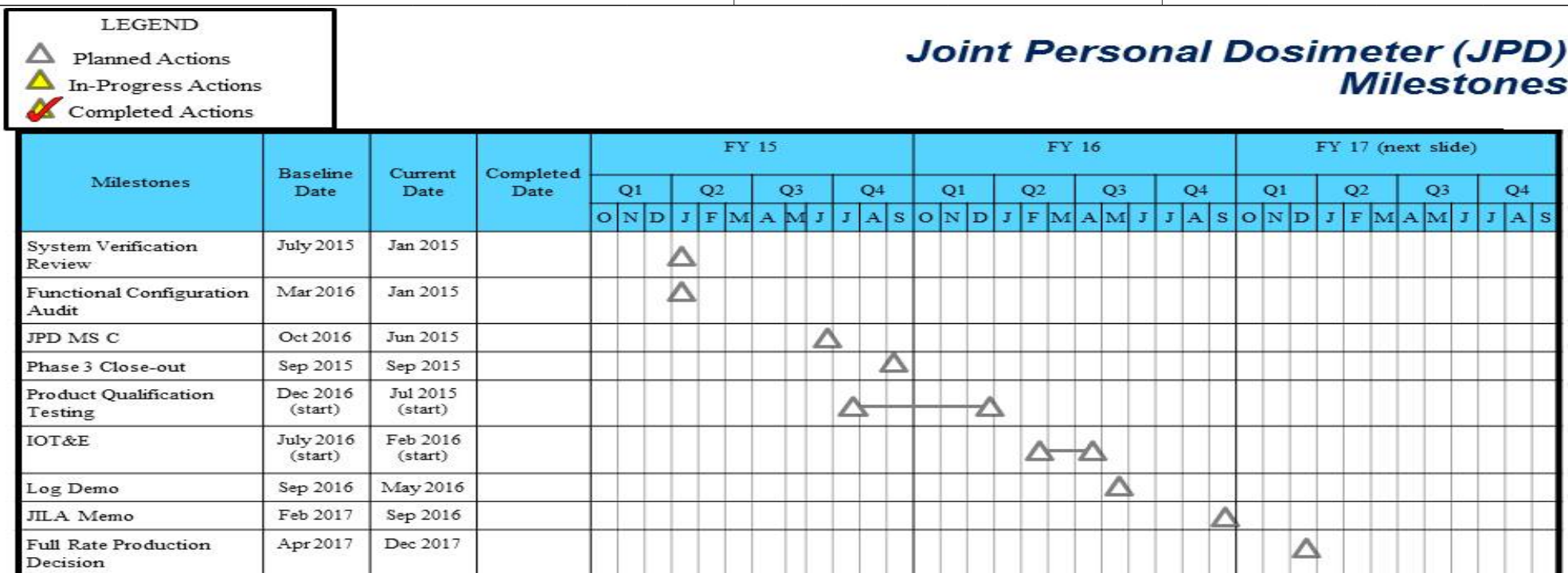
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PSEP Milestones:

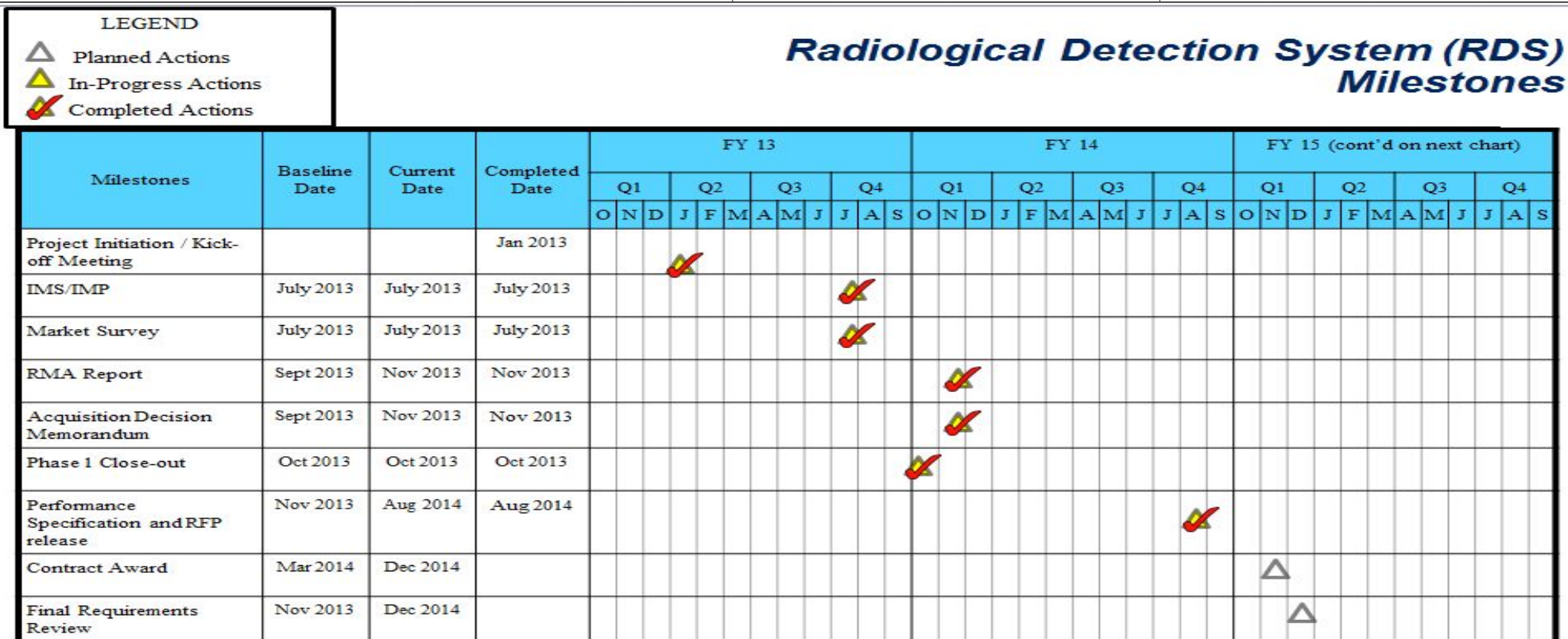
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PSEP Milestones:

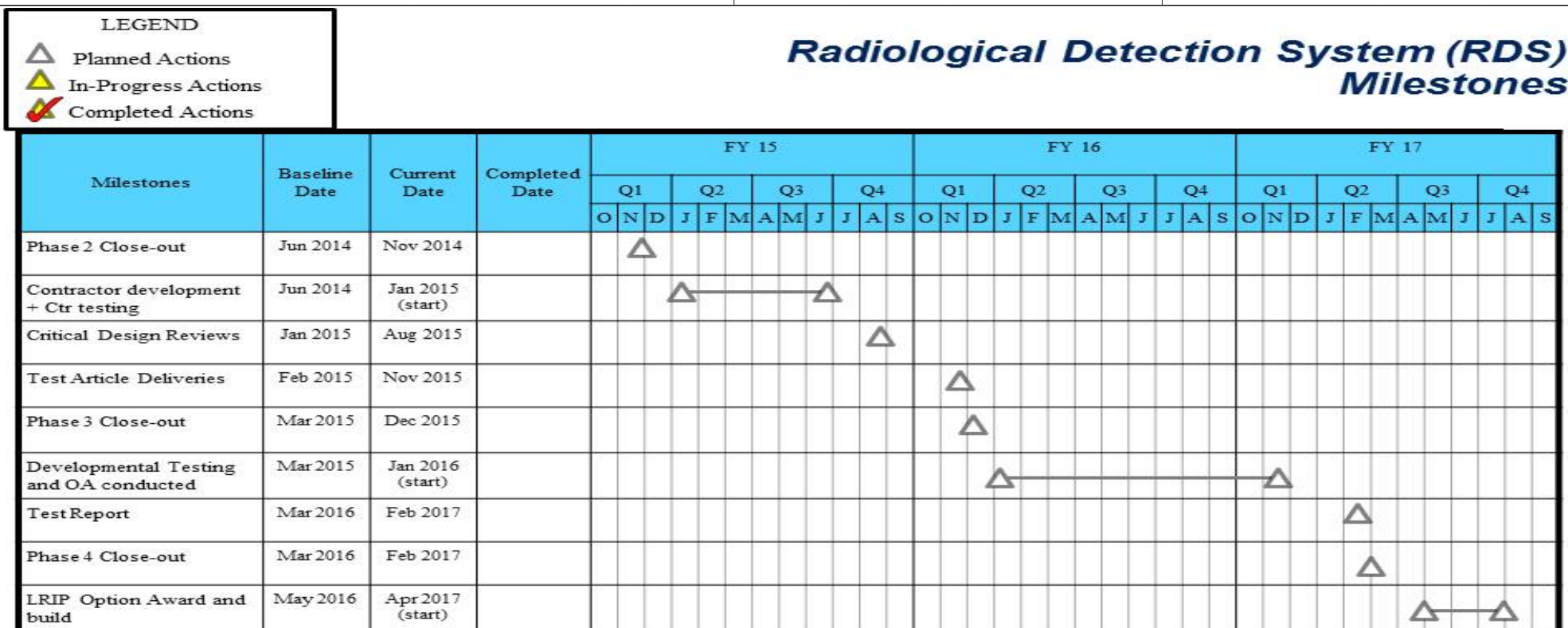
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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / Nuclear and Conventional Physical Security/Countering Nuclear Threats	Project (Number/Name) P042 / CNT Rad/Nuc Passive Defense SDD	



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- Decision/kill points, performance reviews, etc.
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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense




Date: February 2015

Appropriation/Budget Activity
0400 / 5

R-1 Program Element (Number/Name)
PE 0604161D8Z / *Nuclear and
Conventional Physical Security/Countering
Nuclear Threats*

Project (Number/Name)	P042 / CNT Rad/Nuc Passive Defense SDD
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LEGEND

-  Planned Actions
-  In-Progress Actions
-  Completed Actions

Radiological Detection System (RDS) Milestones

[illegible]

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Office of the Secretary Of Defense			Date: February 2015
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604161D8Z / <i>Nuclear and Conventional Physical Security/Countering Nuclear Threats</i>	Project (Number/Name) P042 / <i>CNT Rad/Nuc Passive Defense SDD</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Radiological Detection System</i>				
Radiological Detection System	1	2014	2	2019
<i>Joint Personal Dosimeter</i>				
Joint Personal Dosimeter	4	2014	1	2017