Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

APPROPRIATION/BUDGET ACTIVITY

PE 0603161D8Z: Nuclear and Conventional Physical Security/Countering Nuclear Threats

DATE: February 2012

BA 4: Advanced Component Development & Prototypes (ACD&P)

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	31.263	29.924	33.234	-	33.234	32.629	33.479	34.133	34.876	Continuing	Continuing
P162: Nuclear and Conventional Physical Security/Countering Nuclear Threats	31.263	29.924	33.234	-	33.234	32.629	33.479	34.133	34.876	Continuing	Continuing

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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603161D8Z: Nuclear and Conventional Physical Security/Countering Nuclear Threats

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	32.132	36.798	36.416	-	36.416
Current President's Budget	31.263	29.924	33.234	-	33.234
Total Adjustments	-0.869	-6.874	-3.182	-	-3.182
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-6.000			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-0.668			
Economic adjustments	-0.869	-0.206	-3.182	-	-3.182

Change Summary Explanation

Congress reduced the FY12 budget by \$6M.

Economic adjustments – Report, Studies, Boards and Commissions. As part of the Department of Defense reform agenda, reflects a reduction in the number and cost of reports, studies, DoD Boards and DoD Commissions below the aggregate level reported in previous budget submission.

Exhibit R-2A, RDT&E Project Just	tification: PE	3 2013 Office	of Secreta	ry Of Defens	е	·	·	·	DATE: Febr	uary 2012	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0603161D8Z: Nuclear and Conventional			PROJECT P162: Nucle Security/Co				
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
P162: Nuclear and Conventional Physical Security/Countering Nuclear Threats	31.263	29.924	33.234	-	33.234	32.629	33.479	34.133	34.876	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 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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: Detection and Assessment	5.363	5.898	5.756

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secre	etary Of Defense	DATE: F	DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide	R-1 ITEM NOMENCLATURE PE 0603161D8Z: Nuclear and Conventional	PROJECT P162: Nuclear and (Conventional E	Physical			
BA 4: Advanced Component Development & Prototypes (ACD&P)				•			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013			
Description: The ability to detect an adversary and assess their interwill design equipment to identify and warn of unauthorized access to to the notification and identification of explosive threats or hazards.		-					
 FY 2011 Accomplishments: Installed full suite of Diebold Predator Elite with Correlation of Radar Tested seismic sensors configured in arrays for detecting, identifying Used comparative infrared and Raman tests to determine which exp Investigated signals generated by target and confusant materials in explosive detection equipment. Completed Shoreline Monitoring System Demonstration at Redstone 	g, and tracking targets of interest on land, sea and a plosive detection systems performed the best. order to develop protocols to reduce false alarms in						
• Successfully display and identify friend or foe information. • Advance seismic sensors configured in arrays for detecting, identify. • Detect human activity in heavy foliage using polarimetric imaging tec. • Improve the performance of sonar technology by lowering its false a detection for manlike intruders and increasing its detection and classi. • Reduce nuisance and false alarm rates and improve automatic hum. • Long-range imaging sensor to operate with a sonar system to identi. • Design optimal active sonar functionality in ultra-shallow water envir. • Develop stand-alone marine mammal pen system and associated of Image, classify and warn underwater diver contacts with minimal hu. • Provide a shoreline, perimeter, enclave detection barrier. • Develop early warning and persistent surveillance/assessment utiliz detection capabilities. • Increase surveillance and assessment of activity at all hours and in perimeter. • Interrupt adversaries by analyzing activity in advance of a breach of • Provide All-weather surveillance sensor and the ability to classify an FY 2013 Plans: • Identify friend or foe information proof of concept.	chnology. Ilert rate on nuisance targets, increasing its probabil fication capability against unmanned underwater versan swimmer / diver discrimination. If y divers at significant ranges in the underwater environments. In oncept of operations. In man intervention. In video motion sensing, audio tracking and seism locations that can be on the edge or outside of the formal a defined restricted area boundary.	ity of hicles. ironment.					

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secr	etary Of Defense		DATE: Feb	oruary 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603161D8Z: Nuclear and Conventional			nventional Pl	
BA 4: Advanced Component Development & Prototypes (ACD&P)	BA 4: Advanced Component Development & Prototypes (ACD&P) Physical Security/Countering Nuclear Threats Security/			ıclear Threat	's
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
Detect human activity in heavy foliage using polarimetric imaging terms.		_			
• Improve the performance of sonar technology by lowering its false a					
detection for manlike intruders and increasing its detection and classi		hicles.			
 Reduce nuisance and false alarm rates and improve automatic hum Long-range imaging sensor to operate with a sonar system to identi 		ironmont			
Design optimal active sonar functionality in ultra-shallow water envir		ironinent.			
Develop stand-alone marine mammal pen system and associated control of the c					
Image, classify and warn underwater diver contacts with minimal hu					
Provide a shoreline, perimeter, enclave detection barrier.					
Develop early warning and persistent surveillance/assessment utiliz	ing video motion sensing, audio tracking and seismi	ic			
detection capabilities.					
• Increase surveillance and assessment of activity at all hours and in	locations that can be on the edge or outside of the f	acility			
perimeter.					
• Interrupt adversaries by analyzing activity in advance of a breach of					
• Provide All-weather surveillance sensor and the ability to classify an <i>Title:</i> Access Controls	id identify targets.		5.620	4.218	3.015
			5.020	4.210	3.013
Description: Controlling access to safeguard personnel and their fan infrastructure and materials is paramount. This capability area will for		tyond			
verification of individuals entering or already within a facility.	cus on programs and processes related to the validi	ty and			
verification of individuals entering of alleady within a facility.					
FY 2011 Accomplishments:					
Completed Defense Installation Access Control Demonstration II.					
Conducted independent review of Continuous Vetting for Defense Ir	nstallation Access Control project.				
Completed Biometrics Feasibility Study.	stallation Assess October 1997 at				
Developed plan for Enterprises Services Architecture for Defense In Correlated the Rehavioral Application Study that addressed the Repulse					
Completed the Behavioral Analysis Study that addressed the DoD's Lessons Learned from Ft Hood	independent Review's report, Protecting the Force				
FY 2012 Plans:Use passive and active insider threat scenarios to determine how te	chnology and procedures can be integrated to mini-	mizo on			
insider threat to intentionally exceed or misuse an authorized level of		IIIZE ali			
Develop interruption methods to provide immediate, semi-lethal effether and the semi-lethal effeth		sources			
without any additional specialized equipment.	and the second of the second o				
Conduct Behavioral Analysis table top exercise.					

PE 0603161D8Z: *Nuclear and Conventional Physical Security/Counter...*Office of Secretary Of Defense

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Page 5 of 14 R-1 Line #73

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secre	etary Of Defense		DATE: Fel	bruary 2012	
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 Phy Security/Countering Nuclear Threats			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
Continue Defense Installation Access Control spiral demonstrations	in operational environments.				
 FY 2013 Plans: Advance technology and procedures to minimize an insider threat to to nuclear materials or weapons. Develop interruption methods to provide immediate, semi-lethal effe without any additional specialized equipment. Transition Defense Installation Access Control to system development. 	ct on the interior of structures containing nuclear re				
Title: Installation and Transport Security			5.938	5.898	5.995
Description: Robust installation and transport security are vital to pre unauthorized access to key assets such as nuclear weapons and spe programs and equipment intended to improve the physical security prin-transit.	cial nuclear material. This capability area will focus	on			
 FY 2011 Accomplishments: Identified detection options and a range of flexible response capabilitactical weapon systems, to protect personnel and assets against the Evaluated persistent surveillance, intrusion detection, explosive detesystems, chemical, biological, radiological, nuclear, and high-explosive 	terrorist threat in a waterside security environment ection, entry denial, acoustic hailing, autonomous ur				
 FY 2012 Plans: Evaluate detection options and response capabilities, to include the to protect personnel and assets against the terrorist threat in a waters Develop persistent surveillance, intrusion detection, explosive detections, chemical, biological, radiological, nuclear, and high-explosive 	side security environment. tion, entry denial, acoustic hailing, autonomous unn				
 FY 2013 Plans: Determine if the radar technology can be successfully modified for o area protection against direct trajectory stand-off threats. Assess the ability of electronic warfare sensor to perform off-axis de Establish a semi-permanent installation or relocatable short-term an Proof of concept for detection options and response capabilities previethal tactical weapon systems, to protect personnel and assets again Proof of concept for persistent surveillance, intrusion detection, explunmanned systems, chemical, biological, radiological, nuclear, and hi 	feats against standoff direct-fired threats. d rapidly installed perimeter security system. viously identified, to include the full spectrum of non est the terrorist threat in a waterside security enviror osive detection, entry denial, acoustic hailing, autor	n-lethal to nment.			

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secre	etary Of Defense		DATE: Fel	oruary 2012	
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	P162: Nu	PROJECT P162: Nuclear and Conventional Physics Security/Countering Nuclear Threats		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
 Design a software baseline that brings all of the Tactical Automated configuration management and control. Develop a low frequency, single crystal-based, non-lethal to lethal s signal. 	, ,				
Title: Storage and Safeguards			2.170	1.788	2.314
Description: Properly securing critical assets to prevent access by undersure access is limited to authorized persons is the foundation of phase. (e.g., locks, doors, etc.) designed to delay or stop unauthorized entry	ysical security. This capability area will focus on ed				
 FY 2011 Accomplishments: Standardized an economical magazine construction that compreher operational and seismic safety standards. Developed a Government Services Administration-approved shipbo 		safety,			
 FY 2012 Plans: Identify material accounting, inventory, and tracking methods using safeguards and controls. Develop options for intercontinental ballistic missile launcher closure Evaluate the intercontinental ballistic missile security system to incluresponse forces. Explore interior denial options for the intercontinental ballistic missile 	e door/lock mechanism upgrades to improve delay fude access delay features, intrusion detection syste	eatures. ms, and			
weapon system impact, cost and overall security performance. FY 2013 Plans:					
 Advance material accounting, inventory, and tracking methods using safeguards and controls. 					
 Evaluate options for intercontinental ballistic missile launcher closur Identify solutions for gaps in intercontinental ballistic missile security systems, and response forces. Test interior denial options for the intercontinental ballistic missile la 	system to include access delay features, intrusion	detection			
weapon system impact, cost and overall security performance.					
Title: Prevention			3.760	5.769	8.094

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secre	etary Of Defense		DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P)				nventional P luclear Threa	•
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2011	FY 2012	FY 2013
Description: The security procedures taken to discourage an adversary unauthorized access to critical assets are at the heart of prevention. efforts which have the ability to influence multiple areas.	· ·				
FY 2011 Accomplishments: • Successfully executed the Force Protection Equipment Demonstration • Forecasted technology trends which may strengthen and enhance the Identified gaps in the US government-wide countering nuclear threat	ne countering nuclear threat mission area.				
FY 2012 Plans: • Understand air assault threats and use modeling & simulation to concombinations that offer the most cost-effective approach to counter the Identify military, commercial and homemade explosives by integrating system.	ose threats.				
• Provide federal physical security decision-makers the opportunity to force protection equipment available for procurement.					
 Qualify for procurement an array of commercial off-the-shelf intrusion capability gaps. 	n detection and assessment equipment that addres	ses			
 Create a non-ionizing personnel scanner that can detect threats on t Integrate security system components via wireless communications Plan for the Force Protection Equipment Demonstration IX at Staffor 	with high security over long ranges, without repeate	ers.			
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 Eparticipation in radiation detection and forensics activities.	Engagement Plan to ensure an effective and efficier	t DoD			
 Develop Inventory Management curriculum in conjunction with Natio Improve test and standard reference materials for National Technica Support Physical Security Modeling and simulation support for curric Nuclear Lockdown efforts at Internationals Centers of Excellence. 	al Nuclear Forensics simulation and exercise suppor				
• Understand air assault threats and use modeling & simulation to concombinations that offer the most cost-effective approach to counter the	ose threats.				
 Identify military, commercial and homemade explosives by integratin system. 	ig two identification technologies into one nandheid	ruggea			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secre	etary Of Defense		DATE: Fel	oruary 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJEC	Т		
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603161D8Z: Nuclear and Conventional		P162: Nuclear and Conver		•
BA 4: Advanced Component Development & Prototypes (ACD&P)	A 4: Advanced Component Development & Prototypes (ACD&P) Physical Security/Countering Nuclear Threats Security			uclear Threat	s
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
 Provide federal physical security decision-makers the opportunity to force protection equipment available for procurement. Qualify for procurement an array of commercial off-the-shelf intrusion capability gaps. Create a non-ionizing personnel scanner that can detect threats on the lintegrate security system components via wireless communications of Execute Force Protection Equipment Demonstration IX at Stafford R 	n detection and assessment equipment that address he body in a high throughput environment. with high security over long ranges, without repeate	ses			
Title: Decision Support Systems			5.997	4.895	5.414
 Description: Decision support systems serve the management, opera enterprise to help to make decisions, which may be rapidly changing a focus on command and control equipment and projects related to the and the establishment of common architectures / interface standards. FY 2011 Accomplishments: Provided DoD and industry the means to achieve Physical Security Especifications. Designed the framework for the collection and consolidation of data for the provided provided to the provided provi	and not easily specified in advance. This capability creation and enhancement of common operating p Equipment interoperability through standards and ir	area will ctures,			
 FY 2012 Plans: Integrate sensors, sensor systems and unmanned systems with auto Operating Pictures (COP) with in-depth security, surveillance, and res Provide DoD and industry the means to achieve Physical Security Edspecifications. Design the framework for the collection and consolidation of data from Integrate marine mammal vigilant localization enhancement into existence. 	pmated fusion capabilities to populate available Conponse data for fixed and semi-fixed/expeditionary equipment interoperability through standards and into m disparate small to large security systems.	elements.			
 FY 2013 Plans: Advance Integration of sensors, sensor systems and unmanned syst Common Operating Pictures (COP) with in-depth security, surveillance elements. Provide DoD and industry the means to achieve Physical Security Edspecifications. Design the framework for the collection and consolidation of data from 	e, and response data for fixed and semi-fixed/expe	ditionary			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secre	etary Of Defense		DATE: Fel	oruary 2012	
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 Phy Security/Countering Nuclear Threats		•	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
• Train and demonstrate the ability for marine mammal to perform a 2 mission.	4/7 autonomous swimmer/diver detection and local	ization			
Title: Analytical Support			2.415	1.458	2.646
 Description: This capability area will focus on studies related to physical to day-to-day activities of the DoD Physical Security Equipment FY 2011 Accomplishments: Stood up physical security equipment test and evaluation capability: Conducted live-fire and modeling tests of selected weapons, performing. Qualified, for procurement, an array of COTS intrusion detection and Base Defense Security Systems capability and sustainment gaps. 	nt/Countering Nuclear Threats RDT&E Program. with the Marine Corps set to lead this effort analysis, and develop policy requirements based	on			
 FY 2012 Plans: Conduct test and evaluation efforts for physical security equipment Conduct live-fire and modeling tests of selected weapons, perform a Qualify, for procurement, an array of COTS intrusion detection and a Defense Security Systems capability and sustainment gaps. 					
 FY 2013 Plans: Conduct test and evaluation efforts for physical security equipment Conduct live-fire and modeling tests of selected weapons, perform a Qualify, for procurement, an array of COTS intrusion detection and a Defense Security Systems capability and sustainment gaps. 					
	Accomplishments/Planned Programs	Subtotals	31.263	29.924	33.234

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

	Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secr	retary Of Defense	DATE: February 2012			
D400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603161D8Z: Nuclear and Conventional Physical Security/Countering Nuclear Threats Physical Security/Countering Nuclear Threats E. Performance Metrics The program performance metrics are established/approved through the DoD Physical Security Equipment Action Group (PSEAG) and the Security Policy Verification Committee (SPVC). The cost, schedule and technical progress is reviewed at quarterly PSEAG and SPVC meetings. Performance variances are addressed and	APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
BA 4: Advanced Component Development & Prototypes (ACD&P) Physical Security/Countering Nuclear Threats Security/Countering Nuclear Threats Security/Countering Nuclear Threats Formance Metrics The program performance metrics are established/approved through the DoD Physical Security Equipment Action Group (PSEAG) and the Security Policy Verific Committee (SPVC). The cost, schedule and technical progress is reviewed at quarterly PSEAG and SPVC meetings. Performance variances are addressed and			P162: Nuclear and Conventional Physical			
The program performance metrics are established/approved through the DoD Physical Security Equipment Action Group (PSEAG) and the Security Policy Verific Committee (SPVC). The cost, schedule and technical progress is reviewed at quarterly PSEAG and SPVC meetings. Performance variances are addressed and	BA 4: Advanced Component Development & Prototypes (ACD&P)	Physical Security/Countering Nuclear Threats	Security/Countering Nuclear Threats			
Committee (SPVC). The cost, schedule and technical progress is reviewed at quarterly PSEAG and SPVC meetings. Performance variances are addressed and	. Performance Metrics					
	Committee (SPVC). The cost, schedule and technical progress is r					

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Office of Secretary Of Defense

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/Countering Nuclear Threats

DATE: February 2012

Product Development (\$ in Millions)			FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method Performing & Type Activity & Locatio	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Base Defense	Sub Allot	PM-FPS:Ft Belvoir, VA	2.130	3.720	Mar 2012	4.800		-		4.800	0.000	10.650	10.650
Defense Installation Access Control	Various	Various performers:Various locations	5.150	2.000	Mar 2012	1.500		-		1.500	0.000	8.650	8.650
Countering Nuclear & Biological Threats	Various	Various performers:Various locations	0.500	0.900	Mar 2012	1.910		-		1.910	0.000	3.310	3.310
Force Protection Equipment Demonstration	Sub Allot	PM-FPS:Fort Belvoir, VA	1.237	0.600	Mar 2012	0.500		-		0.500	0.000	2.337	2.337
Integrated Waterside Security	MIPR	Various performers:Various locations	-	0.700	Mar 2012	0.500		-		0.500	0.000	1.200	1.200
Shipboard Security Containers	MIPR	SPAWAR Atlantic:Charleston, SC	-	0.480	Mar 2012	0.190		-		0.190	0.000	0.670	0.670
Ordnance Storage and Handling Facilities	MIPR	NAVFAC ESC:Pt. Hueneme	-	0.400	Mar 2012	0.900		-		0.900	0.000	1.300	1.300
Shoreline Monitoring System	MIPR	NAVFAC ESC:Pt. Hueneme	1.706	0.750	Mar 2012	0.500		-		0.500	0.000	2.956	2.956
Project JIGSAW	MIPR	SPAWAR Atlantic:Charleston, SC	1.250	0.250	Mar 2012	1.000		-		1.000	0.000	2.500	2.500
Video Management System	Sub Allot	Force Protection Branch ESC/ HSS:Hanscom AFB, MA	-	0.649	Mar 2012	0.750		-		0.750	0.000	1.399	1.399
Interior Video Motion Detection	Sub Allot	Force Protection Branch ESC/ HSS:Hansocm AFB, MA	-	0.455	Mar 2012	0.550		-		0.550	0.000	1.005	1.005
Wide Area Detection	Sub Allot	Force Protection Branch ESC/ HSS:Hanscom AFB,MA	-	0.850	Mar 2012	1.000		-		1.000	0.000	1.850	1.850

UNCLASSIFIED Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Office of Secretary Of Defense **DATE:** February 2012 **R-1 ITEM NOMENCLATURE** APPROPRIATION/BUDGET ACTIVITY **PROJECT** PE 0603161D8Z: Nuclear and Conventional 0400: Research, Development, Test & Evaluation, Defense-Wide P162: Nuclear and Conventional Physical BA 4: Advanced Component Development & Prototypes (ACD&P) Security/Countering Nuclear Threats Physical Security/Countering Nuclear Threats FY 2013 FY 2013 FY 2013 **Product Development (\$ in Millions)** FY 2012 oco Base Total **Total Prior** Contract **Target** Method Performing Years Award Award Award Cost To Value of **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract Applied Research Insider Threat IΑ Labs: University of 0.701 0.100 Mar 2012 0.000 0.801 0.801 Texas:Austin, TX Various Project holder Various performers: Various 15.000 13.840 Mar 2012 15.544 15.544 0.000 44.384 44.384 locations Subtotal 27.674 25.694 29.644 29.644 0.000 83.012 83.012 FY 2013 FY 2013 FY 2013 Support (\$ in Millions) FY 2012 Base oco Total Contract **Total Prior** Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract & Type Security Equipment **SPAWAR MIPR** 1.602 1.000 Mar 2012 1.000 1.000 0.000 3.602 3.602 Integration Working Group Atlantic: Charleston, SC Washington Headquarters **NM Support Contract** PO 1.060 Mar 2012 1.090 1.090 0.000 3.170 3.170 1.020 Services:Washington 2 622 2 060 2 090 0.000 6 772 Subtotal 2 090 6 772 FY 2013 FY 2013 **FY 2013** Test and Evaluation (\$ in Millions) oco FY 2012 Base Total Contract **Total Prior** Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item Activity & Location** Cost Cost **Total Cost** & Type Cost Date Cost Date Date Cost Complete Contract Various PSE Test and Evaluation **MIPR** performers:Various 0.270 Mar 2012 1.000 1.000 0.000 1.270 1.270 locations NAVEOD Tech Sensor Fusion: IR and Raman **MIPR** 0.800 0.800 Mar 2012 0.500 0.500 0.000 2.100 2.100 Div:Indian Head, MD NAVEOD Tech Enhance IMS Systems **MIPR** 0.600 1.100 Mar 2012 0.000 1.700 1.700 Div:Indian Head, MD Subtotal 1.400 2.170 1.500 1.500 0.000 5.070 5.070

PE 0603161D8Z: Nuclear and Conventional Physical Security/Counter... Office of Secretary Of Defense

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Office of Secretary Of Defense DATE: February 2012							
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT					
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603161D8Z: Nuclear and Conventional	P162: Nuclear and Conventional Physical					
BA 4: Advanced Component Development & Prototypes (ACD&P)	Physical Security/Countering Nuclear Threats	Security/Countering Nuclear Threats					

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	Total Prior							Target
	Years		FY 2	2013 FY	2013 FY 2013	Cost To		Value of
	Cost	FY 2	2012 Ba	se O	CO Total	Complete	Total Cost	Contract
Project Cost Totals	31.696	29.924	33.234	_	33.234	0.000	94.854	94.854

Remarks