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**OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)**

Date: February 2006

**APPROPRIATION/ BUDGET ACTIVITY**

RDT&amp;E/ Defense Wide BA# 4

**PE NUMBER AND TITLE****0603161D8Z - Nuclear & Conventional Phys Sec Equip**

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	0.000	0.000	33.890	39.012	39.578	40.825	41.895
P162 Nuclear & Conventional Phys Sec Equip	0.000	0.000	33.890	39.012	39.578	40.825	41.895

**A. Mission Description and Budget Item Justification:** The purpose of this program is to develop physical security equipment (PSE) systems, to include Force Protection, for all DoD components. This program supports the protection of tactical, fixed, and nuclear weapons systems, DoD personnel and DoD facilities. The funds are used to provide PSE RDT&E for individual Service and joint PSE requirements. The PSE program is organized so that members of the physical security equipment action group (PSEAG), which consist of the Army, Navy, Air Force, and Defense Threat Reduction Agency (DTRA) representatives monitors, directs and prioritizes potential and existing PSE programs. With few exceptions, each Service sponsors RDT&E efforts for technologies and programs that have multi-service application. This program element supports the Army's advanced engineering development of Interior and Exterior Detection, Security Lighting, Security Barriers and Security Display Units. In a like manner, the program element also supports the Air Force's PSE RDT&E effort in the areas of Exterior Detection/Surveillance, Entry Control, Delay/Denial, Tactical Systems and Airborne Intrusion. Finally, the program supports Navy RDT&E efforts in the areas of Waterside Security, Explosive Detection, and improved technology for Locks, Safes and Vaults. Beginning with FY 1997, this PE includes funding for Force Protection Commercial-Off-The-Shelf (FP COTS) evaluation and testing, which has received focus since the 1996 Khobar Towers terrorist bombing incident. The FP COTS testing applies to all available technologies, which are considered effective for DoD physical security use.

<b>B. Program Change Summary</b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)			
Current BES/President's Budget (FY 2007)	0.000	0.000	33.890
Total Adjustments	0.000	0.000	33.890
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Other			33.890

Recognizing the synergy between nuclear weapons and conventional physical security, funds were realigned from PE 603287F and 605161D8Z of oversight responsibilities regarding non-nuclear (conventional) physical security equipment from the Air Force to DATSD(Nuclear Matters). This will allow DATSD(Nuclear Matters) to leverage nuclear weapons and conventional physical security equipment programs to develop common solutions to common capability gaps.

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**0603161D8Z - Nuclear & Conventional Phys Sec Equip****C. Other Program Funding Summary:** Not Applicable.**D. Acquisition Strategy:** Not Applicable.**E. Performance Metrics:**

FY	Strategic Goals Supported	Existing Baseline	Planned Performance Improvement / Requirement Goal	Actual Performance Improvement	Planned Performance Metric / Methods of Measurement	Actual Performance Metric / Methods of Measurement
07						

Comment: 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 of each project is reviewed at quarterly PSEAG and SPVC meetings. Performance variances are addressed and corrective action is implemented as necessary.

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**OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)**

Date: February 2006

APPROPRIATION/ BUDGET ACTIVITY

RDT&amp;E/ Defense Wide BA# 4

PE NUMBER AND TITLE

**0603161D8Z - Nuclear & Conventional Phys Sec Equip**

PROJECT

**P162**

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
P162 Nuclear & Conventional Phys Sec Equip	0.000	0.000	33.890	39.012	39.578	40.825	41.895

**A. Mission Description and Project Justification:** The purpose of this program is to develop physical security equipment (PSE) systems, to include Force Protection, for all DoD components. This program supports the protection of tactical, fixed, and nuclear weapons systems, DoD personnel and DoD facilities. The funds are used to provide PSE RDT&E for individual Service and joint PSE requirements. The PSE program is organized so that members of the physical security equipment action group (PSEAG), which consist of the Army, Navy, Air Force, and Defense Threat Reduction Agency (DTRA) representatives monitors, directs and prioritizes potential and existing PSE programs. With few exceptions, each Service sponsors RDT&E efforts for technologies and programs that have multi-service application. This program element supports the Army's advanced engineering development of Interior and Exterior Detection, Security Lighting, Security Barriers and Security Display Units. In a like manner, the program element also supports the Air Force's PSE RDT&E effort in the areas of Exterior Detection/Surveillance, Entry Control, Delay/Denial, Tactical Systems and Airborne Intrusion. Finally, the program supports Navy RDT&E efforts in the areas of Waterside Security, Explosive Detection, and improved technology for Locks, Safes and Vaults. Beginning with FY 1997, this PE includes funding for Force Protection Commercial -Off-The-Shelf (FP COTS) evaluation and testing, which has received focus since the 1996 Khobar Towers terrorist bombing incident. The FP COTS testing applies to all available technologies, which are considered effective for DoD physical security use.

Prior efforts were transitioned from Air Force PE 603287F.

**B. Accomplishments/Planned Program:**

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Force Protection/Tactical Security Equipment:	0.000	0.000	12.108

- Begin Light Kit, Motion Detection (LKMD) Prototype Design, Fabrication, and Integration of 40 prototype systems.
- Conduct a Leap Ahead assessment of current PSE capability.
- Develop an enhanced Command and Control Display Element (CCDE) for Physical Security Systems.
- Develop the software to support the Common Operational Picture.
- Conduct Combined Test Force Evaluation of Phase IV development of the the Remote Detection and Tracking System (RDTS).
- Evaluate COTS Wireless Sensor System Network technology.

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Robotic Security Systems Integration:	0.000	0.000	0.923

- Integrate data feeds obtained from unmanned air and ground vehicles to improve surveillance capability and the common operation picture.
- Begin to integrate remote weapon systems with robotic platforms.

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Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Waterside Security System:	0.000	0.000	2.928
<ul style="list-style-type: none"><li>- Continue efforts to develop the next generation WQX-2 Sonar with Allies.</li><li>- Leverage WSS efforts in support of SSBNs. Continue to explore opportunities to develop a viable non-lethal means to neutralize swimmer threats.</li><li>- Further develop brassboard WSS prototypes transitioned from concept development.</li></ul>			
Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Explosive Detection Equipment:	0.000	0.000	5.763
<ul style="list-style-type: none"><li>- Acquire emerging explosive detection technology for comparative testing and realignment of a Baseline Explosive Detection Architecture.</li><li>- Conduct System Design Review for the Video/Radar Concealed Bomb Detection.</li><li>- Develop a hybrid image/trace explosive detection capability.</li><li>- Continue to invest in the development of a viable technology to provide a stand off explosive detection capability against Improvised Explosive Devices (IEDs).</li><li>- Reduce Remote/Standoff Explosive Detection System (R/SEDS) detection time yet increase detection capability.</li><li>- Refine the capability of R/SEDS to specifically identify the type of explosive.</li></ul>			
Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Locks, Safes, Vaults:	0.000	0.000	1.560
<ul style="list-style-type: none"><li>- Develop an Integrated Locking Device (ILD) universal mount prototype.</li><li>- Incorporate ILD design improvements that will increase operation. capability and improve resistance against forced entry.</li><li>- Integrate biometric technology with high security lock technology.</li><li>- Integrate and automate locking systems into other support systems.</li></ul>			
Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Commercial-Off-The-Shelf Testing:	0.000	0.000	2.008
<ul style="list-style-type: none"><li>- Refine Force Protection Equipment Demonstration (FPED) VI on-line registration and informational website.</li><li>- Execute FPED VI.</li><li>- Continue to seek near-term (commercial) solutions for immediate force protection needs.</li></ul>			
Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Nuclear Weapon Physical Security:	0.000	0.000	8.600
<ul style="list-style-type: none"><li>- Survey storage structures to define optimal adaptation of WADS technology to applicable structures/facilities.</li><li>- Apply lessons learned from Secure Brow test and evaluation.</li><li>- Conduct Weapon Maintenance Trailer user testing.</li></ul>			

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<ul style="list-style-type: none"><li>- Develop a fully function, interactive, 3D view client workstation for the Joint Conflict and Tactical Simulation (JCATS).</li><li>- Conduct modeling and simulation review of the Area Security and Asset Protection (ASAP).</li><li>- Design, fabricate, and install prototype delay upgrade hardware in a (Payload Transporter (PT) III Van.</li><li>- Continue developing the Virtual Perimeter Security System (VPS).</li><li>- Improve capability to apply immediate sufficient duress at the Protective Aircraft Shelter.</li></ul>		
<p><b><u>C. Other Program Funding Summary:</u></b> Not Applicable.</p>		
<p><b><u>D. Acquisition Strategy:</u></b> Not Applicable.</p>		
<p><b><u>E. Major Performers</u></b> Not Applicable.</p>		

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OSD RDT&E COST ANALYSIS (R3)											Date: February 2006	
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 4			PE NUMBER AND TITLE <b>0603161D8Z - Nuclear &amp; Conventional Phys Sec Equip</b>								PROJECT <b>P162</b>	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Nuclear & Conventional Physical Security			0	0		0		33890	2-4Q	0	0	0
Subtotal:			0	0		0		33890		0	0	0
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									
Project Total Cost:			0	0		0		33890		0	0	0

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