

UNCLASSIFIED

PE NUMBER: 0603287F
 PE TITLE: Physical Security Equipment

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603287F Physical Security Equipment
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	24.858	1.284	0.466	0.481	0.483	0.497	0.507	0.517	Continuing	TBD
5121 Physical Security Equipment	24.858	1.284	0.466	0.481	0.483	0.497	0.507	0.517	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

This program is a budget activity level 4 based on the concept/technology development activities ongoing within the program. 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. OSD program oversight is provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Intelligence (USD(I)). 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.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	21.937	0.298		
(U) Current PBR/President's Budget	24.858	1.284	0.466	0.481
(U) Total Adjustments	2.921			
(U) Congressional Program Reductions				
Congressional Rescissions	-0.374			
Congressional Increases	4.000			
Reprogrammings	-0.705			
SBIR/STTR Transfer				

(U) Significant Program Changes:

In FY 2007, Project Number 0603287F, Physical Security Equipment, efforts will transferred to PE 603161D, Nuclear and Conventional Physical Security Equipment, in order to recognize the synergy between nuclear weapons and conventional physical security and to leverage common solutions to common capability gaps.

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These residual funds will be reprogrammed.

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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)				PE NUMBER AND TITLE 0603287F Physical Security Equipment			PROJECT NUMBER AND TITLE 5121 Physical Security Equipment			
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5121 Physical Security Equipment	24.858	1.284	0.466	0.481	0.483	0.497	0.507	0.517	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

This program is a budget activity level 4 based on the concept/technology development activities ongoing within the program. 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. OSD program oversight is provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Intelligence (USD(I)). 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.

(U) B. Accomplishments/Planned Program (\$ in Millions)

(U) FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
	11.080			

- Awarded LKMD SDD contract. Conduct Production Qualification LKMD testing.
- Issued Federal Business Opportunities Announcement for the Tactical Video Surveillance System (TVSS).
- Conducted market survey for the TVSS.
- Conducted Concept Exploration for the best technical approach to integrate TVSS with other phenomenology for tactical intrusion detection.
- Conducted operational testing of ASPSS.
- Refined and researched improvements for the Smart Gate program.
- Continued TASS P3I efforts including improvements to the annunciator.
- Continued to manage, develop, evaluate, and test Delay/Denial products.
- Continued to manage sensor and assessment product developments and tests.
- Continued to research technological advances at DoD, DoE, University Labs, DARPA, within industry, etc., with PSE utility.
- Continued to prepare operational systems improvement plans; develop technology roadmap, update system architecture.
- Continued to test, develop, and integrate equipment to improve security and access to facilities.

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**0603287F Physical Security
Equipment**

PROJECT NUMBER AND TITLE

5121 Physical Security Equipment

(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
- Began to develop the XML Wide Area Sensor.				
(U) FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT		1.284		
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2007 plans.				
(U) FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT			0.466	
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2008 plans.				
(U) FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT				0.481
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2009 plans.				
(U) ROBOTIC SECURITY SYSTEMS INTEGRATION	1.524			
- Demonstrated ability to network robotic systems to provide enhanced detection, surveillance, and response in all aspects of installation force protection and installation security.				
- Continued efforts to improve the operational capability and safety of integrated weapon systems and robotics platforms employed in force protection and security missions.				
- Continues imagery improvements for the FPASS.				
- Developed a Digital Network Centric capability for the Remotely Operated Weapons System (ROWS).				
(U) ROBOTIC SECURITY SYSTEMS INTEGRATION				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2007 plans.				
(U) ROBOTIC SECURITY SYSTEMS INTEGRATION				
In FY 2006, Project Number 0603287F, Physical Security Equipment, efforts transferred to PE 603161D, Nuclear and Conventional Physical Security Equipment. Please see PE 603161D for FY 2008 plans.				
(U) ROBOTIC SECURITY SYSTEMS INTEGRATION				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2009 plans.				
(U) WATERSIDE SECURITY SYSTEM	2.500			
- Began the C3 integration of Pierside and Shipboard Security Systems.				
- Began the upgrade of Swimmer Detection sonars.				
(U) WATERSIDE SECURITY SYSTEM				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2007 plans.				

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) WATERSIDE SECURITY SYSTEM				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2008 plans.				
(U) WATERSIDE SECURITY SYSTEM				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2009 plans.				
(U) EXPLOSIVE DETECTION EQUIPMENT	7.011			
- Invested in the integration of image and chem/bio detection to counter the WMD threat. - Invested in the reduction of the manpower footprint associated with the detection of vehicle and cargo explosive threats. - Awarded the development contract for Video/Radar Concealed Bomb Detection. - Began to build the infrastructure to test Shaped Energy X-Ray Detection Systems.				
(U) EXPLOSIVE DETECTION EQUIPMENT				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2007 plans.				
(U) EXPLOSIVE DETECTION EQUIPMENT				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2008 plans.				
(U) EXPLOSIVE DETECTION EQUIPMENT				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2009 plans.				
(U) LOCKS, SAFES, VAULTS	1.332			
- Completed the light-weight weapons armory door ILD prototype. - Developed ILD design improvements to increase operational capability and improved resistance against forced entry. - Continued evaluating Lock technology and attack tools.				
(U) LOCKS, SAFES, VAULTS				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2007 plans.				
(U) LOCKS, SAFES, VAULTS				
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2008 plans.				
(U) LOCKS, SAFES, VAULTS				

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2009 plans.				
(U) COMMERCIAL-OFF-THE-SHELF TESTING - Delivered FPED V After Action Report - Distributed FPED V CDs - Launched FPED VI on-line registration - Prepared to execute FPED VI. - Continued to seek near-term (commercial) solutions for immediate force protection needs.	1.411			
(U) COMMERCIAL-OFF-THE-SHELF TESTING In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2007 plans.				
(U) COMMERCIAL-OFF-THE-SHELF TESTING In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2008 plans.				
(U) COMMERCIAL-OFF-THE-SHELF TESTING In FY 2006, Project Number 0603287F - Physical Security Equipment efforts transferred to PE 603161D8Z - Nuclear and Conventional Physical Security Equipment. Please see PE 603161D8Z for FY 2009 plans.				
(U) Total Cost	24.858	1.284	0.466	0.481

(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Not Applicable										

(U) D. Acquisition Strategy
Not Applicable

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Exhibit R-3, RDT&E Project Cost Analysis

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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u>														
HQ ESC (Air Force)	PO			8.070	Nov-06	1.284	Nov-07	0.466		0.481		Continuing	TBD	TBD
PM-PSE (US Army)	MIPR			4.964	Nov-06							Continuing	TBD	TBD
CNO-N34 (US Navy)	MIPR			7.058	Nov-06							Continuing	TBD	TBD
DTRA	MIPR			1.773	Nov-06							Continuing	TBD	TBD
Subtotal Product Development			0.000	21.865		1.284		0.466		0.481		Continuing	TBD	TBD
Remarks:														
<u>(U) Support</u>													0.000	0.000
Subtotal Support			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
<u>(U) Test & Evaluation</u>													0.000	0.000
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
<u>(U) Management</u>														
Program Office Support				2.993	Nov-06							Continuing	TBD	TBD
Subtotal Management			0.000	2.993		0.000		0.000		0.000		Continuing	TBD	TBD
Remarks:														
<u>(U) Not Applicable</u>														
<u>(U) Total Cost</u>			0.000	24.858		1.284		0.466		0.481		Continuing	TBD	TBD
Remarks:														

Exhibit R-4, RDT&E Schedule Profile

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PROJECT NUMBER AND TITLE

5121 Physical Security Equipment

Exhibit R-4, Schedule Profile

Date: January 2006

BUDGET ACTIVITY

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PE0603287F Physical Security Equipment

PROJECT NUMBER AND NAME

5121 Physical Security Equipment

Fiscal Year	2003				2004				2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Initiate LRIP of the Laser IMS Handheld Explosive Detector.								▲																												
Award development contract for Video/Radar Concealed Bomb Detection.												▲																								
Develop Test for Hybrid System																▲																				

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0603287F Physical Security
Equipment

PROJECT NUMBER AND TITLE
5121 Physical Security Equipment

Exhibit R-4, Schedule Profile																				Date: January 2006																
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)										PE NUMBER AND TITLE PE0603287F Physical Security Equipment										PROJECT NUMBER AND NAME 5121 Physical Security Equipment																
Fiscal Year	2003				2004				2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Market Survey for TVSS														▲																						
TVSS Prototype Design, Fabrication, & Integration														▲																						
PAS Market Survey and Investigation														▲																						

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Exhibit R-4, Schedule Profile

Date: January 2006

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

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PROJECT NUMBER AND NAME

5121 Physical Security Equipment

Fiscal Year	2003				2004				2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Refine MMW technology to counter standoff and suicide bomber threats											▲																									
C3 integration of Pierside and Shipboard Security Systems															▲																					
Initiate LRIP of Laser IMS HH ED											▲																									

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Fiscal Year	2003				2004				2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Award IKMD SDD contract													▲																							
Continue TASS P3I efforts including the annunciator													▲																							
Continue Imagery improvements for the FPASS.																	▲																			
Begin Smart Gate P3I																					▲															
Design MPP modular architecture																																				

Exhibit R-4a, RDT&E Schedule Detail	DATE February 2007
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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Conduct market survey for the TVSS	2Q			
(U) TVSS Prototype Design, Fabrication, & Integration	2Q			
(U) PAS Market Survey and Investigation	2Q			
(U) Continue TASS P3I efforts including the annunciator	1Q			
(U) Conduct a Leap Ahead assessment of current PSE technology		3Q		
(U) Follow-on Early User Appraisal for MDARS	3Q			
(U) Buy Equipment to build a Hybrid Image/Trace EDE system	4Q			
(U) C3 integration of Pierside and Shipboard Security Systems	3Q			