

UNCLASSIFIED

PE NUMBER: 0603287F
 PE TITLE: Physical Security Equipment

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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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 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	2.767	1.672	3.623	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5121 Physical Security Equipment	2.767	1.672	3.623	0.000	0.000	0.000	0.000	0.000	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 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	2.767	1.672	0.478
(U) Current PBR/President's Budget	2.767	1.672	3.623
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			

(U) Significant Program Changes:

In FY 2007, Project Number 0603287F, Physical Security Equipment, efforts were 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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PE NUMBER AND TITLE

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Residual funds will be reprogrammed.

Exhibit R-2a, RDT&E Project Justification

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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 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5121 Physical Security Equipment	2.767	1.672	3.623	0.000	0.000	0.000	0.000	0.000	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)FY 2008FY 2009FY 2010**(U) FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT**

- 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.

Exhibit R-2a, RDT&E Project Justification		DATE May 2009
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- | | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> |
|--|----------------|----------------|----------------|
| (U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u> | | | |
| - Began to develop the XML Wide Area Sensor. | | | |
| (U) FORCE PROTECTION/TACTICAL SECURITY 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) FORCE PROTECTION/TACTICAL SECURITY 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. | 2.767 | | |
| (U) FORCE PROTECTION/TACTICAL SECURITY 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. | | 1.672 | |
| (U) ROBOTIC SECURITY SYSTEMS INTEGRATION
- 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
- 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. | | | |

Exhibit R-2a, RDT&E Project Justification		DATE
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)		May 2009
PE NUMBER AND TITLE 0603287F Physical Security Equipment		PROJECT NUMBER AND TITLE 5121 Physical Security Equipment
(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>		<u>FY 2008</u> <u>FY 2009</u> <u>FY 2010</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 2010 plans.	3.623
(U) EXPLOSIVE DETECTION EQUIPMENT	<ul style="list-style-type: none"> - 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 2011 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	<ul style="list-style-type: none"> - Completed the light-wight 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) **B. Accomplishments/Planned Program (\$ in Millions)** FY 2008 FY 2009 FY 2010
 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.

(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	2.767	1.672	3.623
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(U) **C. Other Program Funding Summary (\$ in Millions)**

	<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>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>	<u></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 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 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			2.767	Apr-08	1.672	Apr-09	3.623	Apr-10	Continuing	TBD	TBD
PM-PSE (US Army)	MIPR									Continuing	TBD	TBD
CNO-N34 (US Navy)	MIPR									Continuing	TBD	TBD
DTRA	MIPR									Continuing	TBD	TBD
Subtotal Product Development			0.000	2.767		1.672		3.623		Continuing	TBD	TBD
Remarks:												
<u>(U) Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Test & Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Management</u>												
Program Office Support										Continuing	TBD	TBD
Subtotal Management			0.000	0.000		0.000		0.000		Continuing	TBD	TBD
Remarks:												
<u>(U) Not Applicable</u>												
<u>(U) Total Cost</u>			0.000	2.767		1.672		3.623		Continuing	TBD	TBD
Remarks:												

Exhibit R-4, RDT&E Schedule Profile

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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

Exhibit R-4, Schedule Profile

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	FY08				FY09				FY10			
	1	2	3	4	1	2	3	4	1	2	3	4
Award LRMD 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-4, RDT&E Schedule Profile

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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

Exhibit R-4, Schedule Profile

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	FY08				FY09				FY10			
	1	2	3	4	1	2	3	4	1	2	3	4
Continue evaluating												
Lock technology and attack								▲				
Begin upgrade of				▲								
Executed FPED V		▲										
Integrate biometric technology with high security lock technology								▲				

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Project 5121

Exhibit R-4 (PE 0603287F)

Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Conduct market survey for the TVSS			1-4Q
(U) TVSS Prototype Design, Fabrication, & Integration	2Q	1-4Q	
(U) PAS Market Survey and Investigation	2Q	3Q	
(U) Continue TASS P3I efforts including the annunciator		3Q	1-4Q
(U) Conduct a Leap Ahead assessment of current PSE technology			1-3Q
(U) Follow-on Early User Appraisal for MDARS		1-4Q	
(U) Buy Equipment to build a Hybrid Image/Trace EDE system	2-3Q		
(U) C3 integration of Pierside and Shipboard Security Systems	1-2Q		