

**UNCLASSIFIED**

PE NUMBER: 0604287F  
 PE TITLE: Physical Security Equipment

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2006</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604287F Physical Security Equipment</b>
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Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	9.381	10.994	0.093	0.034	0.051	0.051	0.052	Continuing	TBD
5120 Physical Security Equipment - SD/ED	9.381	10.994	0.093	0.034	0.051	0.051	0.052	Continuing	TBD

(U) **A. Mission Description and Budget Item Justification**  
 This program is a budget activity level 5 based on the engineering and manufacturing development activities ongoing within the program. The purpose of this program is to design physical security equipment (PSE) systems for all DoD components, to support its physical security and Force Protection missions. 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 consists 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, to be established by a Memorandum of Understanding, is to be provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Networks and Information Integration (NII). With few exceptions, each Service sponsors RDT&E efforts for technologies and programs have multi-service application. This program element supports the Army's advanced engineering development of robotic and detection systems. The program element also supports all four Services' identification and redesign of developmental, non-developmental, and commercial-off-the-shelf equipment to meet physical security requirements. Activities within this program will seek to reduce risk associated with integrating, fielding, and supporting the equipment once it becomes a part of the overall security system.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	9.659	11.153	0.093
(U) Current PBR/President's Budget	9.381	10.994	0.093
(U) Total Adjustments	-0.278	-0.159	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.278	-0.159	
(U) <u>Significant Program Changes:</u>			

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2006**

<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>				<b>PE NUMBER AND TITLE</b> <b>0604287F Physical Security Equipment</b>			<b>PROJECT NUMBER AND TITLE</b> <b>5120 Physical Security Equipment - SD/ED</b>		
Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5120 Physical Security Equipment - SD/ED	9.381	10.994	0.093	0.034	0.051	0.051	0.052	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

This program is a budget activity level 5 based on the engineering and manufacturing development activities ongoing within the program. The purpose of this program is to design physical security equipment (PSE) systems for all DoD components, to support its physical security and Force Protection missions. 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 consists 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, to be established by a Memorandum of Understanding, is to be provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Networks and Information Integration (NII). With few exceptions, each Service sponsors RDT&E efforts for technologies and programs have multi-service application. This program element supports the Army's advanced engineering development of robotic and detection systems. The program element also supports all four Services' identification and redesign of developmental, non-developmental, and commercial-off-the-shelf equipment to meet physical security requirements. Activities within this program will seek to reduce risk associated with integrating, fielding, and supporting the equipment once it becomes a part of the overall security system.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
<b>(U) FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT</b>	2.746		
- Conduct Milestone C Full Rate Production decision for the BAIS.			
- Begin Full Rate Production of BAIS.			
- Conduct Production Verification Tests of BAIS.			
- Continue to manage, develop, evaluate, and test Delay/Denial products.			
- Continue to manage sensor and assessment product developments and tests.			
- Continue to prepare operational systems improvement plans; develop technology roadmap, update system architecture.			
- Continue to test, develop, and integrate equipment to improve security and access to facilities.			
<b>(U) ROBOTIC SECURITY SYSTEMS INTEGRATION</b>	4.435		
- Conduct Production Qualification Tests of MDARS-E Test 1b.			
- Complete Early User Assessments of MDARS-E.			
- Conduct Factory System Production Qualification Tests of MDARS-E.			
- Conduct Environmental and EMI Tests of MDARS-E.			
<b>(U) ROBOTIC SECURITY SYSTEMS INTEGRATION</b>		10.994	
- Conduct operational test of MDARS-E.			

<b>Exhibit R-2a, RDT&amp;E Project Justification</b>	DATE <b>February 2006</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604287F Physical Security Equipment</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5120 Physical Security Equipment - SD/ED</b>
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<b>(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>						
- Provide Engineering Support for fielding the MDARS-E.									
<b>(U) ROBOTIC SECURITY SYSTEMS INTEGRATION</b>			0.093						
- Begin Full Rate Production of MDARS-E.									
<b>(U) ROBOTIC SECURITY SYSTEMS INTEGRATION</b>									
- Conduct payload integration of the MDARS-E.									
- Network MDARS-E with other Unmanned platforms.									
- Network MDARS-E with response systems.									
<b>(U) WATERSIDE SECURITY SYSTEM</b>	1.300								
-Continue preplanned product improvement (P3I) efforts for COTS sonar technologies in support of Subsurface Threat Detection									
-Continue test and evaluation of swimmer detection equipment									
-Continue to monitor and investigate availability of non-lethal technologies in the Swimmer Delay, Denial, and Response area.									
-Conduct in-water tests of Sea Fence and composite material LW barrier developed by the Naval Facilities Engineering Systems Center.									
<b>(U) EXPLOSIVE DETECTION EQUIPMENT</b>	0.900								
- Redesign and develop the Laser IMS prototype into a final production model.									
- Continue to manage, develop, evaluate, and test explosive detection products									
<b>(U) Total Cost</b>	9.381	10.994	0.093						
<b>(U) <u>C. Other Program Funding Summary (\$ in Millions)</u></b>									
	<u>FY 2005</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>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
<b>(U) Not Applicable</b>									
<b>(U) <u>D. Acquisition Strategy</u></b>									
Not Applicable									

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2006**

BUDGET ACTIVITY

**05 System Development and Demonstration (SDD)**

PE NUMBER AND TITLE

**0604287F Physical Security Equipment**

PROJECT NUMBER AND TITLE

**5120 Physical Security Equipment - SD/ED**

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2005 Cost</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> PM-FPS (US Army)	MIPR			9.091	Nov-04	10.573	Jan-06			Continuing	TBD 0.000	TBD
Subtotal Product Development			0.000	9.091		10.573		0.000		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test &amp; Evaluation</u>											0.000	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	TBD
Remarks:												
(U) <u>Management</u>											0.000	TBD
Program Office Support				0.290		0.421		0.093		Continuing	TBD	TBD
Subtotal Management			0.000	0.290		0.421		0.093		Continuing	TBD	TBD
Remarks:												
(U) <u>PM-PSE (US Army)</u>											0.000	TBD
(U) Total Cost			0.000	9.381		10.994		0.093		Continuing	TBD	TBD
Remarks:												

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY  
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE  
0604287F Physical Security  
Equipment

PROJECT NUMBER AND TITLE  
5120 Physical Security Equipment -  
SD/ED

Exhibit R-4, Schedule Profile																												Date: February 2006								
BUDGET ACTIVITY										PE NUMBER AND TITLE										PROJECT NUMBER AND NAME																
05 System Development and Demonstration (SDD)										PE0604287F Physical Security Equipment										5120 Physical Security Equipment - SD/ED																
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
Begin Full Rate												▲																								
Complete Early User Appraisal of MDARS-E																▲																				
Conduct Operational test of MDARS																				▲																
Conduct Sea Fence In-Water tests												▲																								
Redesign and Develop Laser IMS for production																▲																				
Provide Engineering Support for fielding MDARS																																				
Increase MDARS-E speed and response																																				

<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2006</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604287F Physical Security Equipment</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5120 Physical Security Equipment - SD/ED</b>
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	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) <b><u>Schedule Profile</u></b>			
(U) BAIS Milestone C Decision	2Q		
(U) BAIS Production Verification Tests	3Q		
(U) Complete Early User Appraisal of MDARS -E	4Q		
(U) Conduct Sea Fence In-Water tests	1Q		
(U) Redesign and Develop Laser IMS for production	4Q		
(U) Conduct operational test of MDARS-E		1Q	
(U) Provide engineering support for fielding the MDARS-E		3Q	
(U) Begin Full Rate Production of MDARS-E			1Q