PE TITLE: Physical Security Equipment

	Ex	DATE	February 2005								
	T ACTIVITY stem Development and Demons	tration (SDD)			BER AND TITLE 7F Physical					
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	7.675	9.659	11.153	8.122	2.270	3.254	3.329	3.387	Continuing	TBD
5120	Physical Security Equipment - SD/ED	7.675	9.659	11.153	8.122	2.270	3.254	3.329	3.387	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 an ongoing USAF-coordinated Joint Action Group, consisting of 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), the Assistant Secretary of Defense for Networks and Information Integration (NII), and the Assistant to the Secretary of Defense for Nuclear and Chemical and Biological (ATSD(NCB)) 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 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 2004</u>	FY 2005	FY 2006	FY 2007
(U) Previous President's Budget	7.899	9.659	11.153	8.122
(U) Current PBR/President's Budget	7.675	9.659	11.153	8.122
(U) Total Adjustments	-0.224	0.000		
(II) Congressional Program Reductions				

(U) Congressional Program Reductions

Congressional Rescissions

Congressional Increases

Reprogrammings

SBIR/STTR Transfer -0.224

Significant Program Changes:

R-1 Shopping List - Item No. 73-1 of 73-6

	I	DATE	February 2005								
	T ACTIVITY stem Development and Demons	tration (SDD)			BER AND TITLE 7F Physical n ent		512	DJECT NUMBE 2 0 Physical : /ED	R AND TITLE Security Eq ı	uipment -
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	7.675	9.659	11.153	8.122	2.270	3.254	3.329	3.387	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 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 an ongoing USAF-coordinated Joint Action Group, consisting of 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), the Assistant Secretary of Defense for Networks and Information Integration (NII), and the Assistant to the Secretary of Defense for Nuclear and Chemical and Biological (ATSD(NCB)) 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 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.

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

FY 2004 FY 2005 FY 2006 FY 2007

FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT

0.775

- Began SDD of the BAIS.
- Conducted Milestone C Full Rate Production Decision.
- 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.

FORCE PROTECTION/TACTICAL SECURITY EQUIPMENT

3.024

- 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.

(U) ROBOTIC SECURITY SYSTEMS INTEGRATION

6.900

- Began SDD of Mobile Detection and Response System - Exterior (MDARS-E) Patrol Units.

Project 5120 R-1 Shopping List - Item No. 73-2 of 73-6 Exhibit R-2a (PE 0604287F

	UNCLASSIFI	EU					
Exhibit R-2a, RDT&E F	Project Justificat	ion			DATE	February 2	2005
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	0604	IMBER AND TITI 287F Physica pment		51:	OJECT NUMBE 20 Physical D/ED	ER AND TITLE Security Equ	uipment -
- Developed Encryption capability and Military Band communication	ns.						
- Completed Subsystem (Obstacle Avoidance and Intrusion Detection	n) Integration of MDA	RS-E.					
- Began Production Qualification Tests of MDARS-E - completed Te	est 1a.						
(U) ROBOTIC SECURITY SYSTEMS INTEGRATION					4.435		
- Conduct Production Qualification Tests of MDARS-E Test 1b.							
- Complete Early User Assessments of MDARS-E.	3.17						
- Conduct Factory System Production Qualification Tests of MDARS	S-E.						
- Conduct Environmental and EMI Tests of MDARS-E. (U) ROBOTIC SECURITY SYSTEMS INTEGRATION						11.153	
- Conduct operational test of MDARS-E.						11.133	
- Provide Engineering Support for fielding the MDARS-E.							
(U) ROBOTIC SECURITY SYSTEMS INTEGRATION							8.122
- Begin Full Rate Production of MDARS-E.							0.122
- Preplanned Product Improvement (P3I) to obtain greater sensing dis	stance for MDARS-E v	while on the mo	ove.				
- Increase the speed and response feed of MDARS-E to support the R							
(U) WATERSIDE SECURITY SYSTEM					1.300		
-Continue preplanned product improvement (P3I) efforts for COTS s	onar technologies in su	pport of Subsu	rface Threat D	etection			
-Continue test and evaluation of swimmer detection equipment							
-Continue to monitor and investigate availability of non-lethal technol	•	•	-				
-Conduct in-water tests of Sea Fence and composite material LW bar	rier developed by the N	Naval Facilities	Engineering S	Systems Center			
(U) EXPLOSIVE DETECTION EQUIPMENT					0.900		
- Redesign and develop the Laser IMS prototype into a final producti							
 Continue to manage, develop, evaluate, and test explosive detection (U) Total Cost 	products		7.6	:75	0.650	11.153	8.122
(U) Total Cost			7.0	073	9.659	11.133	8.122
(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>							
<u>FY 2004</u> <u>FY 2005</u> <u>FY 2</u>	2006 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
<u>Actual Estimate Esti</u>	<u>Estimate</u>	Estimate	Estimate	Estimate	Estimate	<u>Complete</u>	Total Cost
(U) Not Applicable							
(U) D. Acquisition Strategy Not Applicable							
		700 (770					= 000 455== - -
Project 5120 R-	-1 Shopping List - Item No	. 73-3 01 73-6				Exhibit R-2a (P	E 0604287F)

	Exhibi	t R-3, RD	T&E Proj		LASSIF st Ana						DATE	Febru	uary 200)5
BUDGET ACTIVITY 05 System Development and D	emonstration	(SDD)			PE N 060 Eq u		JECT NUMBER AND TITLE O Physical Security Equipment -							
U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	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	Targe Value o Contrac
U) Product Development PM-FPS (US Army) NAVEODTECHDIV (US Navy) Subtotal Product Development Remarks:	MIPR MIPR		0.000	7.385 7.385	Dec-03	7.069 0.900 7.969	Oct-04 Oct-04	10.703 10.703	Oct-05	7.802 7.802	Oct-06	Continuing Continuing	0.900	TBI TBI
U) Support Subtotal Support Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.00
U) Test & Evaluation SPAWAR, San Diego (US Navy) Subtotal Test & Evaluation Remarks:	MIPR		0.000	0.000		1.300 1.300	Oct-04	0.000		0.000		0.000	1.300 1.300	TB TB
U) Management Program Office Support Subtotal Management Remarks:			0.000	0.290 0.290		0.390 0.390		0.450 0.450		0.320 0.320		Continuing Continuing		TB TB
U) PM-PSE (US Army) U) Total Cost Remarks:			0.000	7.675		9.659		11.153		8.122		Continuing	TBD	ТВ

Project 5120

Exhibit R-3 (PE 0604287F)

Exhibit R-4, RDT&E Schedule Profile 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

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Fiscal Year	Ĺ.,		03		2004				-0.00	005			2005					07				08			20				C 7	10		-0.2		11		
	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 SDD of BAIS					A																															
BAIS Production		50	-30		90	30	À			-	8 8	:	-	1	- 5	- 3	-50	-50		30	30			===	W	= 3	: \$		===			50	50		56	-
Verification Tests								Š.																												
MDARS-E SDD		A			66	85			-	E4	8 8	:	5	97		- 2	_35	-36		ā5	86		E4 :		8	2 3	: 8		: \$ T .			_35	_35		ā()	\$
Conduct Sea		-4	-8		-	<u>.</u>	is -)	9 63	- 63		- 7	-4	-		*			57	e3 - 6	4 6	4 4	- 4))				-4	-4		-	i.
Fence In- Water tests									4	88																										
Redesign and Develop Laser IMS for		-39	-39		30	90	8		-		3 3	▲		5-1	-	- 5	-38	76		90	30			-	3 - 7	3	: - 8	. 8	5-1			=76	539		90	8
production																																				
Provide Engineering		700	100			30				8 3		2 2	E 59	5 5	•		100	100		300	XX.		8 -	8 8	3 3		. 5.	. 5	- 3			100	900		30	
Support for fielding MDARS																																				
Increase MDARS-E speed and response																•	S																			

Exhibit R-4 (PE 0604287F)

Project 5120

	UNCLASSIFIED		DATE	
Exhibit R-4a, RDT	&E Schedule Detail			ary 2005
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604287F Physical Security Equipment		PROJECT NUMBER AND T 5120 Physical Securit SD/ED	ITLE
(U) Schedule Profile (U) Begin SDD of BAIS (U) BAIS Milestone C Decision (U) BAIS Production Verification Tests (U) MDARS SDD (U) Complete Early User Appraisal of MDARS -E (U) Conduct Sea Fence In-Water tests (U) Redesign and Develop Laser IMS for production (U) Conduct operational test of MDARS-E (U) Provide engineering support for fielding the MDARS-E (U) P3I for MDARS-E for greater sensing distance (U) Increase MDARS-E speed and response feed to support REDCAR	1Q 2Q	2Q 3Q 4Q 1Q 4Q	FY 2006 1Q 3Q	1Q 1Q
Project 5120	R-1 Shopping List - Item No. 73-6 of 73-6		Exhibit F	R-4a (PE 0604287F)