RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 2003			
BUDGET ACTIVITY 04 - Advanced Component Deve (ACD&P)	lopment and P	and Prototypes 0603287F Physical Security Equipment						ргојест 5121				
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost		
5121 Physical Security Equipment	0	0	24,483	22,699	21,878	25,613	30,125	29,721	0	(
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	(

(U) A. Mission Description

This program supports the protection of tactical 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 Command, Control and Communications (ASD(C3I)), 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 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. 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 use.

(U) <u>FY 2002 (\$ in Thousands)</u>

(U) \$0 This is a new Air Force program element. Effective October 1, 2003, funding for this program transfers from OUSD(AT&L) PE 0603228D8Z.

Please refer to that PE for FY 2002 accomplishments.

(U) \$0 Total

(U) FY 2003 (\$ in Thousands)

(U) \$0 This is a new Air Force program element. Effective October 1, 2003, funding for this program transfers from OUSD(AT&L) PE 0603228D8Z.

Please refer to that PE for FY 2003 plans.

(U) \$0 Total

Project 5121 Page 1 of 8 Pages Exhibit R-2 (PE 0603287F)

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2003 PE NUMBER AND TITLE **BUDGET ACTIVITY PROJECT** 04 - Advanced Component Development and Prototypes 0603287F Physical Security Equipment 5121 (ACD&P) A. Mission Description Continued FY 2004 (\$ in Thousands) \$24,483 AIRCRAFT SELF-PROTECTION SECURITY SYSTEM (0.500 million) (U)·Correct any deficiencies discovered during test and demonstration and prepare for production. COMMON REMOTELY OPERATED WEAPON SYSTEM (CROWS) (0.200 million) ·Complete the Risk Reduction and Demonstration Phase ·Prepare for Production ·Correct any problems discovered during prototype testing. DELAY/DENIAL (D/D) DEVELOPMENT/VALIDATION (0.900 million) ·Continue to manage D/D product developments. ·Continue to evaluate D/D COTS products. ·Continue to recommend new D/D technologies. EXTERIOR PSE DEVELOPMENT/QUALIFICATION (0.925 million) ·Continue to manage sensor, access control, and assessment product developments. •Continue to evaluate sensor, access control, and assessment COTS products. ·Continue to recommend new sensor, access control, and assessment technologies. LEAP AHEAD PROGRAM (0.908 million) ·Continue to identify technological advances at DoD, DoE, University Labs, DARPA programs, etc., with PSE utility. •Continue to respond/research FP Battlelab requests for information. ·Continue to prepare operational systems improvement plans. Develop technology roadmap. Update system architecture. SMART GATE (0.775 million) ·Continue to test, develop, and integrate equipment to improve security and access to facilities.

Exhibit R-2 (PE 0603287F

Project 5121

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) BUDGET ACTIVITY 04 - Advanced Component Development and Prototypes (ACD&P) PE NUMBER AND TITLE 0603287F Physical Security Equipment 5121

(U) A. Mission Description Continued

(U) FY 2004 (\$ in Thousands) Continued

COMMERCIAL-OFF-THE-SHELF TESTING (5.216 million)

- Procure and deliver COTS Force Protection Equipment in support of DoD urgent and compelling requirements for evaluation and testing.
- ·Publish appropriate reports and place them on the Force Protection and Physical Security Communities of Practice Portal.
- ·Update the User's Guide of commercially available Non Developmental Items for Force Protection users.
- ·Update methodology and publish test and evaluation schedule for FY 2004.
- ·Procure and test biometrics systems for integration into portals for greater identity assurance.
- ·Procure and test systems that reduce manpower and enhance security effectiveness.

TACTICAL AUTOMATED SECURITY SYSTEM (4.033 million)

- ·Conduct testing of COTS products to add capabilities to the TASS suite of products.
- ·Award and perform technology enhancement ECPs to improve/provide new capabilities.
- ·Continue the miniaturization efforts to produce a system that is small, lightweight, and durable.
- ·Continue Annunciator efforts to provide a man-portable annunciation capability.
- ·Continue data communications efforts to increase capability and harden/secure data communications.
- ·Integrate entry control and annunciation capabilities.
- •Continue efforts that increase the situational awareness for the operators.

WATERSIDE SECURITY SYSTEM (2.902 million)

- ·Continue T&E of COTS technology at the 5000 Mike Pier integration facility.
- ·Support WSS operational sites.
- $\cdot Complete \ work \ on \ the \ Joint \ US/UK \ Sonar \ RDT\&E \ Project.$
- ·Deploy new sonar technology at a US and UK operational site.
- ·Integrate teleconferencing, document control, e-learning technology into the KM Portal.
- ·Evaluate new waterside barrier technologies.
- ·Evaluate communications technologies for shipboard and waterfront applications.
- ·Install waterside barrier technology at Navy sites.

Project 5121 Page 3 of 8 Pages Exhibit R-2 (PE 0603287F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) BUDGET ACTIVITY 04 - Advanced Component Development and Prototypes (ACD&P) PE NUMBER AND TITLE 0603287F Physical Security Equipment 5121

(U) A. Mission Description Continued

(U) FY 2004 (\$ in Thousands) Continued

EXPLOSIVE DETECTION EQUIPMENT (4.908 million)

- ·Conduct market surveys and investigations for COTS and developmental EDE to be further evaluated.
- ·Conduct laboratory and operational testing of several EDE technologies.
- ·Integrate COTS and developmental systems for the detection and identification of IEDs.
- •Examine the most suitable combinations of EDE technologies, such as imaging and trace, to determine the most effective combination for the detection of explosives.
- ·Update the threat to DoD from IEDs.
- ·Continue to develop logistic support plans, summaries, operational manuals for selected COTS products.
- ·Update and maintain the EDE web site.

LOCKS, SAFES, VAULTS (1.716 million)

- ·Update and publish guide specifications for security equipment (as needed).
- ·Develop and publish specification for label seals.
- $\cdot Develop \ and \ implement \ testing/qualification \ procedures \ for \ label \ seals.$
- ·Publish four Lock Program Newsletters.
- ·Test and evaluate forced entry resistance of selected weapon storage and magazine door systems.
- $\cdot Support\ DoD\ locking\ system/security\ hardware\ procurement\ and\ troubleshooting\ requirements.$
- ·Monitor, evaluate, and track problems and vulnerabilities associated with approved security equipment.
- ·Develop and publish cost effective methods to upgrade attack resistance of AA&E magazine door systems.
- ·Test and evaluate commercially available forced entry attack tools.
- Determine operational and security requirements for high security, biometrics/mechanical locking systems for protections of conventional and non-conventional arms, ammunition, & explosives, and classified information.
- ·Select and evaluate biometrics technology to be integrated into currently approved or developing high security locking / security systems

ELECTRONIC TRIP FLARE (1.500 million)

·Conduct Operational Evaluation portion of Early User Appraisal by Army Research Laboratory Human Factors Field Element at the US Army Maneuver Support Center.

Project 5121 Page 4 of 8 Pages Exhibit R-2 (PE 0603287F)

	RDT&E BUDGET ITEM JUSTIFICATION	SHEET (R-2 Exhib	oit)	DATE Febru	ary 2003
04 -	GET ACTIVITY Advanced Component Development and Prototypes D&P)	PE NUMBER AND TITLE 0603287F Physical	pment	PROJECT 5121	
(U)	A. Mission Description Continued				
(U) (U)	FY 2004 (\$ in Thousands) Continued Prepare Final Prototype Evaluation Report. Rewrite Operational Requirements Document to Upd \$24,483 Total	ate Analysis.			
(U)	B. Budget Activity Justification This program is a level 4 budget activity because of the need to evaluate, test protection of DoD personnel and facilities, including nuclear assets and othe equipment (PSE), including that equipment used for Force Protection, for all	r critical weapon systems. Thi	•	-	-
(U)	C. Program Change Summary (\$ in Thousands)	TV 2002	TV 2002	TV 2004	m . 1.0
(U) (U) (U)	Previous President's Budget Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions Adjustments to Budget Years Since FY 2003 PBR	FY 2002 0	<u>FY 2003</u> 0	FY 2004 0	Total Cos
(U) (U)	Current Budget Submit/FY 2004 PBR Significant Program Changes: OSD PBD 203C transferred funding for this existing program, along with PI execution, effective October 1, 2003.	0	0	24,483	management and
P	roject 5121 Pag	e 5 of 8 Pages		Exhibit R-2	2 (PE 0603287F)

	RDT&E BU	JDGET IT	TEM JUS	STIFICA	TION SI	HEET (R	-2 Exhib	it)	D/	February	y 2003
04 -	GET ACTIVITY Advanced Componer CD&P)	nt Develor	oment and	d Prototy	=	NUMBER AND 603287F		Security I	Equipmen	t	PROJECT 5121
(U)	D. Other Program Funding	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost
` /	AF RDT&E Other APPN Not Applicable	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	Estimate	<u>Estimate</u>	Complete	
	E. Acquisition Strategy Not Applicable										
(U)	F. Schedule Profile					FY 2002		<u>FY 2</u>			2004
(U)	Not Applicable				1	2 3	4 1	2	3 4	1 2	3 4
_l P	roject 5121				Page 6 o	f 8 Pages				Exhibit R-2 (P	E 0603287F)

RDT&E PRO	OGRAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)		DATE F e	ebruary 20	003
BUDGET ACTIVITY 04 - Advanced Component Development and Prototypes (ACD&P)				=	ER AND TITLE B7F Physic	cal Securi			PROJECT 5121	
(U) A. Project Cost Breakdo	wn (\$ in Thousan	ds)								
						<u>FY 2</u>		FY 200		FY 2004
(U) ASPSS							0		0	500
(U) CROWS							0		0	200
(U) Delay/Denial Demonstrat							0		0	900
(U) Exterior PSE Developmen	nt/Qualification						0		0	925
(U) Leap Ahead Program							0		0	908
(U) Smart Gate (a.k.a. SAFE	Gate)						0		0	775
(U) COTS							0		0	5,216
(U) TASS							0		0	4,033
(U) WSS							0		0	2,902
(U) EDE							0		0	4,908
(U) Locks, Safes, Vaults							0		0	1,716
(U) ETF							0		0	1,500
(U) Total							0		0	24,483
(U) <u>B. Budget Acquisition H</u>	istory and Plannin	ng Informatio	n (\$ in Thousand	<u>s)</u>						
(U) Performing Organization	ns:									
Contractor or	Contract									
Government	Method/Type	Award or	Performing	Project						
Performing	or Funding	Obligation	<u>Activity</u>	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
Activity	<u>Vehicle</u>	Date	EAC	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program
Product Development Org	anizations									
HQ ESC (Air Force)	MIPR	1 Nov 03						9,980		9,980
PM-PSE (US Army)	MIPR	1 Nov 03						3,238		3,238
CNO-N34 (US Navy)	MIPR	1 Nov 03						11,265		11,265
Support and Management	Organizations									
Test and Evaluation Organ	nizations									
Project 5121			Page	e 7 of 8 Pag	ges			Exhib	it R-3 (PE 0	603287F)

PE NUMBER AND TITLE 0603287F Physic Total Prior to FY 2002	Budget FY 2002	ty Equipm			ROJECT 5 121
•		<u>Budget</u>			
		FY 2003	Budget FY 2004	Budget to Complete	<u>Tota</u> <u>Progra</u>
<u>Total Prior</u> to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004 24,483	Budget to Complete	Tota Progra 24,48
			24,483		24,48
		to FY 2002 FY 2002	to FY 2002 FY 2003 FY 2003	to FY 2002	to FY 2002 FY 2003 FY 2004 Complete 24,483 24,483