ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit) February 2004								
BUDGET ACTIVITY 6 - Management support	PE NUMBER 0604256A DEVELO	A - THRE		ILATOR			PROJECT <b>976</b>	
COST (In Thousands)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
976 ARMY THREAT SIM (ATS)		17593	19601	22101	21151	19367	20020	20998

A. Mission Description and Budget Item Justification:

This program supports the design, development, acquisition, integration and fielding of realistic mobile threat simulators and realistic threat simulation products utilized in Army training and developmental and operational tests. While this project originally funded simulators representing Soviet equipment, the changing world order has expanded the scope of this program to address other world threats. Army Threat Simulator and Threat Simulation products are utilized to populate test battlefields for U.S. Army Test and Evaluation Command (ATEC) conducted developmental and operational tests, and to support Program Executive Office (PEO) required user testing in System Integration Laboratories and hardware/simulation in-the-loop facilities. Army threat simulator and threat simulation products developed or fielded under this program support Army-wide, non-system specific threat product requirements as defined in the Army Threat Simulator and Simulation Program Plan (TSPP). Each capability is pursued in concert and coordination with existing Army and tri-service capabilities to eliminate duplication of products and services, while providing the proper mix of resources needed to support Army testing and training. These battlefield simulators represent systems (e.g. missile systems, command, control and communications systems, electronic warfare systems, helicopters, etc.) that are used to portray a realistic threat environment during testing of U.S. weapon systems. Simulator development is responsive to Office of the Secretary of Defense and General Accounting Office guidance that the Army conduct operational testing in a realistic threat environment. Actual threat equipment is acquired when appropriate (in lieu of development) and total package fielding is still required (i.e., instrumentation, operations and maintenance, manuals, new equipment training, etc.). Threat simulator development is accomplished under the auspices of the Project Manager for Instrument

FY 2005 funds develop intelligence and electronic warfare (IEW) scenario generation system dense test threat scenarios required to fully simulate environments supporting analysis for the Future Combat System. Continues development of XM11s required for the testing of Army Aviation systems; development of the information assurance test tool threat system; and begins development efforts for the threat IEW environment.

This project supports the Current to Future transition path of the Transformation Campaign Plan (TCP).

Accomplishments/Planned Program  Develop Intelligence and Electronic Warfare scenario generation system for test scenario planning and execution.	FY 2003 3145	FY 2004 7629	FY 2005 7832
Develop product enhancements for XM11S simulator threat system.	3674	4069	4859
Continued instrumentation and fielding of Threat Mines Simulator.	1048	0	0

## **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)** February 2004 **BUDGET ACTIVITY** PE NUMBER AND TITLE PROJECT 0604256A - THREAT SIMULATOR 976 6 - Management support **DEVELOPMENT Accomplishments/Planned Program B(continued)** FY 2003 FY 2004 FY 2005 Develop Information Assurance Test Tool (IATT) Threat system. 2557 2722 1598 Developed Radio Frequency Surface to Air Missile Threat Simulator. 2100 0 0 Validate threat simulators/simulations to ensure they are available for operational test. 154 602 138 Conducted a target acquisition and designation study for Unmanned Aerial Vehicle simulator. 1038 0 Conducted Radar Surveillance and Target Acquisition (RSTA) Study. 539 0 0 Conducted Injection Jammer Proof of Concept Study. 790 0 0 Develop Automated Intelligence and Electronic Warfare Test System (AI-EWTS) multiple emitters. 2082 0 2100 Developed Multi-Mode Top Attack Threat Simulator. 0 Conduct Threat Systems Management Office Operations efforts at Ft. Bliss, TX. 0 0 5877 Develop Threat IEW Environment to simulate EW capabilities.

B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	18158	17751	18915
Current Budget (FY 2005 PB)	17593	19601	22101
Total Adjustments	-565	1850	3186
Congressional program reductions		-172	
Congressional rescissions			
Congressional increases		2500	
Reprogrammings	-565	-478	
SBIR/STTR Transfer			
Adjustments to Budget Years			3186

Develop radio frequency (RF) Surface-to-Air Missile (SAM) radar prototype.

Small Business Innovative Research/Small Business Technology Transfer Programs

Change Summary Explanation: Funding - FY 2004: Congressional plus-ups in the amount of \$2500. FY 2005: Funds realigned from the Army Test and

Totals

0

0

0

17593

0

2500

19601

445

1797

22101

0

0

GET ACTIVITY <b>Management support</b>	PE NUMBER AND TITLE 0604256A - THREAT SIMULATOR	February 2004 PROJECT
	DEVELOPMENT	976
luation Command (PE 0605712A/V02) for more efficient ope	eration of the management of threat systems (+ \$5877).	