

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY
6 - Management support

PE NUMBER AND TITLE
**0604256A - THREAT SIMULATOR
DEVELOPMENT**

PROJECT
976

COST (In Thousands)		FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
976	ARMY THREAT SIM (ATS)	20603	29694	23796	21151	21862	21960	22582	17761

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), to conduct 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. 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 for the Army to 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 Instrumentation, Targets and Threat Simulators (PM ITTS) and the Director, Operational Test and Evaluation, Threat Simulator Investment Working Group. These affiliations minimize any development duplication within the U.S. Army or Department of Defense (DoD).

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Develop Intelligence and Electronic Warfare scenario generation system for test scenario planning and execution.	7629	7227	6806	6048
Develop product enhancements for XM11S simulator threat system.	4069	3512	3470	451
Develop Information Assurance Test Tool (IATT) Threat system.	2739	1068	2596	2526
Validate threat simulators/simulations to ensure they are available for operational test.	584	329	561	586
Develop Advanced Electronic Order of Battle (AEOb) upgrade and develop mobile threat emitter system interoperable with threat scenario outputs.	2082	931	1393	2118
Conduct Threat Systems Management Office Operations efforts.	1000	5677	6063	6107
Develop Threat Intelligence and Electronic Warfare Environment to simulate Electronic Warfare capabilities.	0	1463	1799	2133

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Accomplishments/Planned Program B(continued)

	FY 2004	FY 2005	FY 2006	FY 2007
Develop radio frequency (RF) Surface-to-Air Missile (SAM) radar prototype.	2500	6800	0	0
Develop simulations of threat deception techniques.	0	887	1108	1182
Develop Army Threat Signals Intel Program	0	1800	0	0
Totals	20603	29694	23796	21151

B. Program Change Summary

	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	22101	21151	19367
Current Budget (FY 2006/2007 PB)	29694	23796	21151
Total Adjustments	7593	2645	1784
Net of Program/Database Changes			
Congressional Program Reductions	-339		
Congressional Rescissions			
Congressional Increases	8600		
Reprogrammings			
SBIR/STTR Transfer	-668		
Adjustments to Budget Years		2645	1784

Change Summary Explanation:

FY 2005: Congressional increase for Army Threat Signals Intelligence Program (+1800); RF/SAM Threat Simulator Program (+6800).

FY 2006 and FY 2007: Funds realigned for more efficient operation of the management of threat systems (FY 2006 +2645/FY 2007 +1784).