

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2002

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0604256A - THREAT SIMULATOR DEVELOPMENT						PROJECT 976		
COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
976 ARMY THREAT SIM (ATS)	20293	18857	15251	18590	13004	15563	16099	Continuing	Continuing

A. Mission Description and Budget Item Justification: This program supports the design, development, integration and fielding of realistic mobile threat simulators and realistic threat simulation products utilized in Army training, developmental and operational tests. Army Threat Simulator and Threat Simulation products are utilized to populate test battlefields for US Army Test and Evaluation Command (ATEC)-conducted operational tests, and to support Program Executive Officer (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 requirements defined in the AMC chartered Threat Simulator and Simulation Program Plan (TSPP) and identified as nonsystem 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 US weapon systems. Simulator development is responsive to Office of the Secretary of Defense and General Accounting Office concerns that the Army conduct operational testing in a realistic threat environment. While this project originally funded simulators representing Soviet equipment, the changing world order has expanded the scope of this program to address Rest Of World (ROW) threats. Actual threat equipment is acquired when appropriate in lieu of development. Total package fielding will still be 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). This project supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

FY 2001 Accomplishments:

- 1694 Finalized development and fielding of Global Positioning System (XMGPS) receiver jammer.
- 1828 Completed development of Distributed Electronic Warfare Simulation (XMDEWS) Advanced Land Combat System.
- 2869 Continued instrumentation and fielding of XM70A threat systems.
- 1296 Continued development of regimental elements of XMC3S for the Battle Management Network.
- 2806 Continued detailed design and development of active protective system (XMAPS) threat system.
- 2200 Developed Next Generation Anti-Tank Guided Missile (XMATGM) plume signature generator.

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BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

6 - Management support**0604256A - THREAT SIMULATOR
DEVELOPMENT****976****FY 2001 Accomplishments: (Continued)**

- 2500 Developed Threat Mine Simulator.
- 2100 Developed Threat Information Operations Simulator.
- 3000 Developed Millimeter Wave Jammer threat simulator.

Total 20293

FY 2002 Planned Program

- 1753 Continue development of XMAPS threat system.
- 3055 Develop Intelligence and Electronic Warfare scenario generation system for test scenario planning and execution in a live/virtual environment.
- 1958 Complete instrumentation and fielding of XM70A threat systems.
- 1540 Develop hardware -in-the-loop simulations of infra-red threat surface-to-air missile systems.
- 2098 Complete development and instrument Threat Mines Simulator.
- 1958 Develop Information Operations/Information Warfare (IO/IW) Threat system.
- 3495 Develop product improvements for XM11S threat systems.
- 1000 Develop Next Generation Anti-Tank Guided Missile (ATGM) hardware seeker system.
- 1000 Develop Advanced Cognitive Reasoning Technology simulator.
- 1000 Develop RF SAM Threat Simulator.

Total 18857

FY 2003 Planned Program

- 2173 Develop Top Attack simulator.
- 4710 Develop product improvements for XM11S threat system.
- 1408 Continue instrumentation and fielding of Threat Mines Simulator.
- 2494 Continue development of Intelligence and Electronic Warfare scenario generation system for test scenario planning and execution in a live/virtual environment.
- 4466 Continue development of IO/IW threat system.

Total 15251

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<u>B. Program Change Summary</u>	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2002 PB)	20808	16011	15917
Appropriated Value	21001	19011	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	-154	0
b. SBIR / STTR	-515	0	0
c. Omnibus or Other Above Threshold Reductions	0	0	0
d. Below Threshold Reprogramming	0	0	0
e. Rescissions	-193	0	0
Adjustments to Budget Years Since FY2002 PB	0	0	-666
Current Budget Submit (FY 2003 PB)	20293	18857	15251