

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**February 2008**

BUDGET ACTIVITY		PE NUMBER AND TITLE					PROJECT	
<b>6 - Management support</b>		<b>0604256A - THREAT SIMULATOR DEVELOPMENT</b>					<b>976</b>	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	
976 ARMY THREAT SIM (ATS)	23258	23339	21416	22200	17011	17393	17789	

**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, 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.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Completed development of the Intelligence and Electronic Warfare scenario generation system for test scenario planning and execution.	5785		
Completed development product enhancements for XM11S simulator threat system.	746		
Continue development of Network Exploitation Test Tool (NETT).	2526	1144	1223
Develop Advanced Electronic Order of Battle (AEOB) upgrade and develop mobile threat emitter system interoperable with threat scenario outputs.	2118	1919	
Conduct Threat Systems Management Office Operations efforts.	6168	6469	6548
Develop Threat Intelligence and Electronic Warfare Environment to simulate Electronic Warfare capabilities.	2133	2560	2853
Completed development of radio frequency (RF) Surface-to-Air Missile (SAM) radar prototype.	1300		
Develop simulations of threat camouflage, concealment, deception and obscurants (CCD&O) techniques (formerly known as threat deception techniques).	1182	1139	1502
Follow-on development for an Electronic Combat and Counter Terrorism Training Range for threat scenarios. This is a follow-on to a FY07 Congressional Add Threat Systems Management satellite office for Townsend Electronic Combat Training Range.	1300	1600	
Begins development of the functionality of the Threat Battle Command Center (TBCC) to support new threat systems/equipment.		3781	3867
Begins development of Threat Signal Injection Jammer.		1060	1894

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**February 2008**

BUDGET ACTIVITY	PE NUMBER AND TITLE		PROJECT
<b>6 - Management support</b>	<b>0604256A - THREAT SIMULATOR DEVELOPMENT</b>		<b>976</b>
Begins development on location tracking capability of MCNI-TR.		1437	
Begins development of Threat Wireless Network Exploitation Test Tool (NETT).		1797	3529
Small Business Innovative Research/Small Business Technology Transfer Programs		433	
<b>Total</b>	<b>23258</b>	<b>23339</b>	<b>21416</b>

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**February 2008**

BUDGET ACTIVITY	PE NUMBER AND TITLE			PROJECT
<b>6 - Management support</b>	<b>0604256A - THREAT SIMULATOR DEVELOPMENT</b>			<b>976</b>
<b><u>B. Program Change Summary</u></b>	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2008/2009)	23517	21887	21482	
Current BES/President's Budget (FY 2009)	23258	23339	21416	
Total Adjustments	-259	1452	-66	
Congressional Program Reductions		-148		
Congressional Rescissions				
Congressional Increases		1600		
Reprogrammings	173			
SBIR/STTR Transfer	-432			
Adjustments to Budget Years			-66	

FY08 Program Change Summary includes a Congressional Add of \$1,600 thousand for Electronic Combat and Counter Terrorism Training and (\$148 thousand) for Congressional Program Reductions.