

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY 6 - Management support	PE NUMBER AND TITLE 0604256A - THREAT SIMULATOR DEVELOPMENT		
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
976 ARMY THREAT SIM (ATS)	22912	25092	22222

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.

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B. Program Change Summary

	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	23339	21416	22200
Current BES/President's Budget (FY 2010)	22912	25092	22222
Total Adjustments	-427	3676	22
Congressional Program Reductions		-84	
Congressional Rescissions			
Congressional Increases		3760	
Reprogrammings	6		
SBIR/STTR Transfer	-433		
Adjustments to Budget Years			22

Change Summary Explanation: Funding - FY09 Congressional add of \$3,760K for Electronic Combat and Counter Terrorism Threat Developments to Support Joint Forces.

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<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Developed Advanced Electronic Order of Battle (AEOB) upgrade and developed mobile threat emitter system interoperable with threat scenario outputs.	1919		
Continue development of Network Exploitation Test Tool (NETT). Combines with the wireless NETT program in FY09 to provide single program approach for both technologies.	1150	3407	3723
Conduct Threat Systems Management Office Operations efforts. FY09 program mission re-scoped to match Army T&E mission areas.	6469	2194	2358
Develop Threat Intelligence and Electronic Warfare (IEW) Environment to simulate Electronic Warfare capabilities.	2560	2962	3096
Developed simulations of threat camouflage, concealment, deception and obscurants (CCD&O) techniques (formerly known as threat deception techniques).	1139		
Follow-on development for an Electronic Combat and Counter Terrorism Training Range for threat scenarios. This is a follow-on to a FY08 Congressional Add Threat Systems Management satellite office for Townsend Electronic Combat Training Range.	1600	3760	
Develop the functionality of the Threat Battle Command Center (TBCC) to support new threat systems/equipment.	3781	3690	3722
Develop design for 2-channel man-pack Remote Jamming Unit (RJU) and 10 watt environmentally sealed Control Signal Transmitter (CST) for Threat Signal Injection Jammer (TSIJ).	1060	2583	2205

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Developed on location tracking capability of Mobile Commercial Network Infrastructure-Test Range (MCNI-TR).	1437		
Develop Threat Wireless Network Exploitation Test Tool (NETT). FY09 funds realigned to NETT program and combine this technology into one program.	1797		
Begins development of Control of Signal Transmission-Open Air Capability (CST-OAC) and Signal Intelligence/Direct Finding (SIGINT/DF) sensors onto a larger aerial platform for Threat Devices capability.		2371	3330
Develops Networked Electronic Support Threat Sensors (NESTS) systems up to 3GHz for integration within threat force.		929	1644
Develops key Computer Network Operations (CNO) Team support for threat events.		2721	2144
Small Business Innovative Research/Small Business Technology Transfer Programs.		475	
Total	22912	25092	22222