

**UNCLASSIFIED**

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE February 2000					
BUDGET ACTIVITY <b>6 - Management and Support</b>				PE NUMBER AND TITLE <b>0604256A Threat Simulator Development</b>				PROJECT <b>D976</b>				
COST (In Thousands)				FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D976 Army Threat Simulator Program				12354	19683	13901	15929	15880	20439	21027	Continuing	Continuing
<p><b>A. Mission Description and Budget Item Justification:</b> This program finances the design, development, integration and fielding of realistic mobile threat simulators and realistic threat simulation products utilized in Army training, developmental tests 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 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. Initially created to develop simulators of 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 CROSSBOW, which is administered by the Director , Operational Test and Evaluation, Office of the Secretary of Defense. These affiliations eliminate any duplication within the U.S. Army or Department of Defense (DoD).</p> <p><b>FY 1999 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>• 2433 Completed threat transmissions and communication devices within the command data link structure; installed and integrated fire units and acquisition radar data links; and integrated lower echelon command structure for the Battle Management Network.</li> <li>• 1782 Completed Proof-of-Principle field test of an eye safe laser/receiver design for XMDEWS Advanced Land Combat Systems.</li> <li>• 1000 Developed Jamming Simulator for US Army Battle Laboratory (Congressional Plus-up).</li> <li>• 2529 Completed design and development of embedded instrumentation system for the XM15A Air Defense System.</li> <li>• 1856 Completed design and development of embedded instrumentation system for the XM43A Air Defense System.</li> <li>• 2754 Continued development of Advanced Distributed Electronic Warfare Simulation (XMADEWS).</li> </ul> <p>Total 12354</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 1735 Develop Global Positioning System (XMGPS) receiver jammer.</li> <li>• 3336 Continue development of XMDEWS Advanced Land Combat System.</li> <li>• 3615 Initiate instrumentation and fielding of XM70A threat system.</li> </ul>												
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<p><b>FY 2000 Planned Program: (continued)</b></p> <ul style="list-style-type: none"> <li>• 2478 Continue development of regimental elements of XMC3S for the Battle Management Network</li> <li>• 482 Initiate initial design for XM11S threat system.</li> <li>• 188 Initiate initial design for XMAPS threat system.</li> <li>• 1205 Complete development of Advanced Distributed Electronic Warfare Simulation (XMADEWS).</li> <li>• 1200 Develop Threat Mine Simulator (Congressional Plus-Up).</li> <li>• 3000 Develop Virtual Threat Simulator (Congressional Plus-Up).</li> <li>• 2000 Develop Threat EO/IR Simulator (Congressional Plus-Up).</li> <li>• 444 Small Business Innovative Research/Small Business Technology Transfer Program (SBIR/STTR)</li> </ul> <p>Total 19683</p> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 1694 Complete development and fielding of XMGPS receiver jammer.</li> <li>• 1828 Complete development of XMDEWS Advanced Land Combat System.</li> <li>• 3430 Continue development and fielding of XM70A threat system.</li> <li>• 1293 Continue development of regimental elements of XMC3S for the Battle Management Network.</li> <li>• 2703 Initiate development of XM18S threat system.</li> <li>• 2953 Initiate development of XMAPS threat system.</li> </ul> <p>Total 13901</p> <p>THREAT SIMULATOR Test Programs Supported: Aircraft (MH-47E) Follow On Operational Test II, MH-60K Aircraft, Aircraft (MH-60K) Follow On Operational Test II, RAH-66 Comanche EUTE, RAH-66 Comanche FDTE I, Suite of Integrated Radio Countermeasures (SIRFCM), Suite of Integrated Radio Countermeasures (SIIRCM), Unmanned Aerial Vehicle (UAV) - Payload, Force XXI Battle Command Brigade and Below, Army Airborne Command and Control, Army TACMS Block II/BAT, Bradley Fighting Vehicle-A3, Crusader FDTE, Extended Range MLRS, FAAD Block III, GPS in Joint Battle Space Environment, Guardrail/Common Sensor System II, Handheld Standoff Mine Field Detection System, IEW Tactical Proficiency Trainer, Joint Close Air Support HT&amp;E, Joint Suppression of Enemy Air Defense (JSEAD), Land Warrior, Long Range Advanced Scout Surveillance System, Navigational Warfare Global Positioning System, OH-58D Kiowa Warrior, Patriot Advanced Capabilities PAC-3 Config-3, UH-60Q, Theater High Altitude Area Defense System.</p>		
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<b>B. Program Change Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 2000/2001 PB)	12837	13680	13791
Appropriated Value	12935	19880	
Adjustments to Appropriated Value			
a. Congressional General Reductions	-98		
b. SBIR / STTR	-258		
c. Omnibus or Other Above Threshold Reduction		-68	
d. Below Threshold Reprogramming	-173		
e. Rescissions	-52	-129	
Adjustments to Budget Years Since FY 2000/2001 PB			+110
Current Budget Submit (FY 2001 PB)	12354	19683	13901