

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

June 2001

BUDGET ACTIVITY
6 - MANAGEMENT SUPPORT

PE NUMBER AND TITLE
0605712A - Support of Operational Testing

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	68935	68149	89047	0	0	0	0	0	0	0
001 ATEC IOTE	17411	18026	34120	0	0	0	0	0	0	0
987 ATEC INSTRUMENTATION MODERNIZATION & DEVELOPMENT	5351	6105	7540	0	0	0	0	0	0	0
V02 ATEC ACTIVITIES	46173	44018	47387	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The US Army Test and Evaluation Command (ATEC) consists of three subordinate commands: the Army Evaluation Center (AEC), the Operational Test Command (OTC), and the Developmental Test Command (DTC). This program element finances the operational test and evaluation of developmental materiel systems to include support to Army Transformation. Project 001 provides for direct operational testing and evaluation on major and non-major material systems (ACAT II-IV), including Multi-Service and Joint tests. Excludes funding for Acquisition Category I (ACAT I) major weapons, ACAT IA Automated Information Systems which have funding programmed within the PE for development of each system and ACAT Is with a Army Program Manager. Project 987 provides for development and acquisition of non-major and sustaining instrumentation necessary to attain and maintain the data collection and analysis capability to conduct credible and robust operational tests as demanded by the DoD and Congress. It provides for replacement and improvements of existing obsolete inventory and for the development of new technologies to keep abreast of new weapons advancements. Project V02 provides for the recurring costs of operating the test activities of the U.S. Army Operational Test Command and similar support across the Command.

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	68659	71079	72540	0
Appropriated Value	68946	68779	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-1018	0	0	
c. Omnibus or Other Above Threshold Reductions	-155	0	0	
d. Below Threshold Reprogramming	1294	0	0	
e. Rescissions	-132	-630	0	
Adjustments to Budget Years Since FY2001 PB	0	0	16507	
Current Budget Submit (FY 2002/2003 PB)	68935	68149	89047	0

Change Summary Explanation: Funding - FY 2000: Funds were reprogrammed into this PE to support Interim Brigade Combat Team test efforts (+1849). FY 2002/2003: Increases were made in support of continued testing and evaluation (FY 2002: +16507/FY 2003: +9228).

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PROJECT
001

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
001 ATEC IOTE	17411	18026	34120	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project finances the direct costs of planning and conducting operational testing and evaluations on major and non-major materiel systems (ACAT II-IV). This project also includes Multi-Service systems (ACAT II-IV and ACAT I without an Army Program Manager) and Joint Tests (JT). It funds those costs directly attributable to conducting early user tests and evaluations (EUTE), limited user tests and evaluations (LUTE), or initial operational tests and evaluations (IOTE). Operational testing is conducted using typical user troops trained to operate the system. Test conditions are as close as possible to actual combat or operating circumstances. ATEC provides Army leadership with an independent test and evaluation of effectiveness, suitability, and survivability of the system.

FY 2000 Accomplishments

Some of the tests that have been conducted are: Force XXI Battle Command Brigade and Below(FBCB2) - Limited User Test and Evaluation (LUTE), Single Shelter Switch Initial - Operational Test and Evaluation (IOTE), Integrated System Control (ISYSCON) - LUTE, and Joint Warfighter (JWF).

- 7468 Advanced Concept Technology operational testing and evaluation.
- 3007 Joint Test operational testing and evaluation.
- 3120 Command, Control, Communications and Computers operational testing and evaluation. Joint Tests operational testing and evaluation.
- 1583 Engineer/Combat Support operational testing and evaluation.
- 1406 Fire Support operational testing and evaluation.
- 740 Intelligence and Electronic Warfare operational testing and evaluation.
- 87 Aviation operational testing and evaluation.

Total 17411

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PROJECT

001

FY 2001 Planned Program

Planned tests include: Suite of Integrated Radio Frequency Countermeasures (SIRFC), Joint Warfighter (JWF), Battlefield Combat Identification System (BCIS), Advanced Field Artillery Tactical Data System (AFATDS 99) - LUTE, Combat Identification for the Dismounted Soldier (CIDDS) - IOTE, and Upgraded M270A1 Multiple Launch Rocket System .

- 6143 Intelligence and Electronic Warfare operational testing and evaluation.
- 3636 Fire Support operational testing and evaluation.
- 3031 Close Combat operational testing and evaluation.
- 2714 Joint Tests operational testing and evaluation.
- 1815 Aviation operational testing and evaluation.
- 151 Engineer/combat support operational testing and evaluation.
- 536 Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) Programs.

Total 18026

FY 2002 Planned Program

Planned tests include: All Source Analysis System Remote Workstation (ASASRWS), Joint Tactical Terminal (JTT-2), Joint Shipboard Helicopter Integration Process (JSHIP), Joint Theatre Distribution (JTD), Joint Close Air Support (JCAS), Joint Cruise Missile Defense (JCMD), Joint Battle Damage Assessment (JBDA), Suite of Integrated Radio Frequency Countermeasures (SIRFC), Firefinder (FF), Aviation Mission Planning System (AMPS), Tactical Air Space Integration System (TAIS) and Tactical Fire Fighting Truck (TFFT).

- 7660 Fire Support operational testing and evaluation.
- 7543 Command, Control, Communications and Computer operational testing and evaluation.
- 4107 Aviation operational testing and evaluation.
- 3359 Intelligence and Electronic Warfare operational testing and evaluation.
- 3188 Joint Tests operational testing and evaluation.
- 1100 Engineer/combat support operational testing.
- 870 Close Combat operational testing and evaluation.

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PROJECT

001

FY 2002 Planned Program (Continued)

- 6293 Tactical Unmanned Aerial Vehicle (TUAV) testing and evaluation.

Total 34120

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PROJECT
987

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
987 ATEC INSTRUMENTATION MODERNIZATION & DEVELOPMENT	5351	6105	7540	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project provides for the instrumentation development, technical upgrade and maintainability of essential instrumentation to achieve cost effective data collection, data reduction, data analysis, telemetry, modeling and simulation, and processing capability for support of robust and credible operational tests as required by the DoD and Congress. Increased sophistication of new weapons and communication and control systems demands the ability to capture test data at greater rates and increased volumes and then to reduce the information rapidly to only those essential to effectively evaluate the test. As digitization of the battlefield continues, this effort allows ATEC to modernize and develop its non-major instrumentation allowing it to be less intrusive, more reliable and more robust in terms of integrating combat simulation capability into operational tests. The goal is to expand measurement and test control capability while still reducing future test costs. This project supports multiple instrumentation efforts that lead to improved command and control, increased mobility, expanded remote data collection at various tactical sites with transmit capability to central receiving, control, and evaluation stations at various test directorates, and new instrumentation capability in support of Real-Time Casualty Assessment (RTCA) which measures simulated attrition of forces during simulated battlefield engagements. Operational test directorates are located at Fort Hood, TX; Fort Bliss, TX; Fort Huachuca, AZ; Fort Sill, OK; and Fort Bragg, NC.

FY 2000 Accomplishments

- 3302 Field Data Collection (Collection, Transfer and Reduction).
 - 1246 Test Tracking Systems (Telemetry and Imaging).
 - 482 Global Positioning System (GPS) Modernization.
 - 321 Modeling and Simulation.
- Total 5351

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PROJECT
987

FY 2001 Planned Program

- 2947 Field Data Collection (Collection, Transfer and Reduction).
- 1441 Test Tracking Systems (Telemetry and Imaging).
- 975 GPS Modernization.
- 561 Modeling and Simulation.
- 181 Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR)Programs

Total 6105

FY 2002 Planned Program

- 3770 Field Data Collection (Collection, Transfer and Reduction).
- 2020 Test Tracking Systems (Telemetry and Imaging).
- 900 GPS Modernization.
- 850 Modeling and Simulation.

Total 7540

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PROJECT
V02

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
V02 ATEC ACTIVITIES	46173	44018	47387	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project finances base costs associated with operational testing, including civilian pay, support contracts, temporary duty, supplies and equipment for elements of the US Army Test and Evaluation Command (ATEC). This project funds the Operational Test Command's Airborne and Special Operations Test Directorate, Fort Bragg, NC; Air Defense Test Directorate, Fort Bliss, TX; Fire Support Test Directorate, Fort Sill, OK; and the Intelligence and Electronic Warfare Test Directorate, Fort Huachuca, AZ, and test and support directorates located at Fort Hood, TX (Aviation; Close Combat; Engineer/Combat Support; Command, Control, Communications and Computers; Advanced Concepts and Test and Evaluation Support Activity). The primary mission of these test directorates is to conduct operational testing of developmental materiel, initial operational test and evaluation (IOTE), follow-on test and evaluations (FOTE), force development test and experimentation (FDTE), and Army Warfighting Experiments (AWE). This project also finances requirements for various Test and Evaluation Liaison Offices located at Fort Benning, Fort Knox, Fort Leonard-Wood, Fort Lee, Fort Gordon, Fort Rucker and the Operational Test Command liaison office for the Initial Brigade Combat Team (IBCT) at Fort Lewis.

FY 2000 Accomplishments

- 28820 Operational costs including: civilian pay, support contracts, temporary duty, supplies and equipment for subordinate elements of Operational Test Command. Includes 292 civilian authorizations.
- 17353 Other Operational costs including: civilian pay, support contracts, temporary duty, supplies and equipment for the Liaison Officers, ATEC Threat Support Activity (ATSA) and subordinate commands. This includes support for Initial Brigade Combat Team (IBCT) throughout the Command. Includes 20 civilian authorizations.

Total 46173

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PROJECT
V02

FY 2001 Planned Program

- 26712 Operational costs including: civilian pay, support contracts, temporary duty, supplies and equipment for subordinate elements of Operational Test Command of the Army Test and Evaluation Command. A total of 292 civilian authorizations are supported.
 - 16964 Other Operational costs including: civilian pay, support contracts, temporary duty, supplies and equipment for the Liaison Officers, ATEC Threat Support Activity (ATSA)and subordinate commands. A total of 20 civilian authorizations are supported.
 - 342 Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) Programs.
- Total 44018

FY 2002 Planned Program

- 33300 Operational costs including: civilian pay, support contracts, temporary duty, supplies and equipment for subordinate elements of the Operational Test Command. A total of 292 civilian authorizations are supported.
 - 14087 Other Operational costs including: civilian pay, support contracts, temporary duty, supplies and equipment for the Liaison Officers, ATEC Threat Support Activity (ATSA)and subordinate commands. A total of 20 civilian authorizations are supported.
- Total 47387