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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2)					February 2003			
OPERATIONAL TEST AND EVALUATION, DEFENSE (0460) BUDGET ACTIVITY SIX			CENTRAL TEST AND EVALUATION INVESTMENT PROGRAM (CTEIP) PROGRAM ELEMENT (PE) 0604940D8Z					
\$'s in Millions	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
PE 0604940D	127.090	122.294	123.215	124.444	126.651	128.261	130.844	133.277

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

Since its inception in FY 1990, this program element has been, and continues to be, used to fund the development of critically needed, high priority Test and Evaluation (T&E) capabilities for joint/multi-Service requirements. The Central Test and Evaluation Investment Program (CTEIP) uses a corporate investment approach to combine Service and Defense Agency T&E needs, maximize opportunities for joint efforts, and avoid unwarranted duplication of test capabilities. CTEIP focuses investments on projects that will have high productivity returns on investment. Projects under the CTEIP Program Element (PE) support two basic tasks: investments to improve the test capabilities base (Joint Improvement and Modernization (JIM) projects), and development of near-term solutions to test capability shortfalls in support of an ongoing operational test program (Resource Enhancement Project (REP)).

The JIM funds critically needed T&E investments in the major functional areas of test mission command, control, communications and instrumentation; electronic warfare systems; threat and computational simulation test and evaluation; space systems T&E; weapons effects test capabilities; targets; and physical and environmental test capabilities. The investments include both the demonstrations of advanced technologies needed to test increasingly complex and sophisticated weapon systems and the transition of these technologies into test capabilities. Examples of project subject matter include: automated data collection, processing, display and archiving; smart munitions testing; modeling and simulation; advanced electronic combat systems; low-observable technologies and signature measurements; targets and target control; time-space-position-information; end-game measurement; testing of advanced materials application; test design; and advanced sensors and space systems. CTEIP continues as the focal point for fostering common architectures throughout the test and training communities to enhance the sharing of resources and links between test and training ranges. CTEIP has provided special focus to institutionalize the use of M&S as a practical test method; to link ranges through internetting to enhance inter-range and inter-Service cooperation and resource sharing; and, to ensure development and acquisition of common instrumentation necessary for a more efficient test infrastructure. Analyses of alternative solutions are conducted for each investment project to validate T&E requirements, to define integrated support systems, and to determine overall cost effectiveness of the proposed test investments. The use of DoD-wide criteria for requirement validation, prioritization, and risk assessment ensures an effective test resource investment program.

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The REP funds development of near-term solutions for critical ongoing operational tests supporting decisions on major, high priority defense acquisition programs. These unanticipated operational test (OT) capability requirements arise from several sources such as a new threat system identified during OT planning, acquisition of foreign military assets that are critical in determining weapon system operational effectiveness, short timelines between system design maturity and scheduled OT, and emerging technologies and test requirements resulting from operational concept changes **mandated by Congress or DOT&E**, or system of systems testing. Funding these activities under the CTEIP provides the opportunity to coordinate and integrate these near-term test requirements with the total DoD test and evaluation investment planning, and ensures their availability and legacy for other programs that may have similar testing requirements.

This Research Category 6.4 PE supports the development and application of proven technologies to provide major test and evaluation capabilities required to meet DoD component weapon system test requirements.

Program Accomplishments and Plans:

FY 2002 Accomplishments:

JIM Projects:

- Completed development of Programmable Resource Control for the Multi-Object Tracking Radar under the Advanced Mobile Object Acquisition System project
- Completed development of the Roadway Simulator capability for light truck testing, continued development of a capability for heavy truck testing, and initiated development of a capability for tractor-trailer combination testing
- Completed the Communication, Navigation, Identification Simulator and the Generic Radar Target generator instrumentation projects within the Joint Installed System Test Facility (JISTF) project
- Completed the development of the Long-Term Test Capability (LTTC) camera, and continued the development of the Super High-Speed Visible (SHV) camera and the integration of an infrared sensor with the SHV, under the Airborne Separation Video (ASV) project
- Completed the Hardened Sub-Miniature Telemetry and Sensor System project to develop and demonstrate a new generation of rugged, miniaturized, on-board instrumentation applicable to weapon system flight tests
- Completed the Holloman High Speed Test Track conventional upgrade necessary for improved reliability and also to provide increased payload/velocity and instrumentation capabilities
- Completed the Transportable Range Augmentation Control System project to develop a suite of transportable equipment and instrumentation for common range control functions
- Completed the Global Positioning System (GPS) Signal Validation project following the development of hardware and structures that can be integrated into current GPS test capabilities
- Completed the Joint Modeling and Simulation System project to provide interoperability among the Services' models and simulations.
- Continued systems development to meet threshold requirements of the Airborne Icing Tanker project to develop an airborne icing capability for testing various DoD aircraft systems at both high and low altitude, suitably presenting natural rain and icing conditions

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- Continued the concept development phase of the Contamination Avoidance Detector Test Suite project to provide test methodology, instrumentation, and test fixtures required to test and evaluate current and developmental Chemical Biological (CB) detector systems over the entire range of expected use conditions
- Continued the concept development phase of the Joint Data Acquisition Network Standards project to provide a suite of standards to establish component interoperability within a vehicular data acquisition network
- Continued the concept development phase of the Enhanced Range Applications Project to provide a state-of-the-art Airborne Range Data System that supports next generation data collection requirements
- Continued the concept development phase of the Joint Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) project to develop a capability to test increasingly complex multi-discipline fusion concepts
- Continued the development and demonstration of time-space-position information (TSPI), flight termination / safe and arm (FTSA), and Telemetry functions on advanced missile platforms under the Joint Advanced Missile Instrumentation project
- Continued development of software tools for test/exercise planning and analysis and range integration products within the Foundation Initiatives 2010 project
- Continued the Infrared Sensor Stimulator product improvement under the JISTF Product Improvements project to provide improved installed systems capabilities needed to support next generation aircraft testing
- Continued the system development phase of the Decade Radiation Test Facility--Enhanced project to develop and field an upgraded, above ground, ionizing radiation test capability to meet existing and emerging nuclear weapons effects test requirements
- Continued the Air-to-Ground and Ground Signature Measurement Systems (AGSMS and GSMS) developments within the Tri-Service Signature Measurement and Database System project
- Continued the Digital Video Laboratory project to provide digital video data analysis and reporting capability for aircraft stores separation, as part of the Digital Video Systems Development project
- Continued the system development phase of the Advanced Range Telemetry project to improve the efficiency, reliability, utility, and availability of aeronautical telemetry spectrum by adapting advances in commercial communications technology
- Continued the system development phase of the Electromagnetic Environment Effects Generating System project to provide a multi-service test facility capable of assessing actual performance of a full-scale, fixed, or rotary-winged aircraft completely immersed in a user-specified radio frequency environment
- Continued the system development phase of the Electromagnetic Transient Test and Evaluation Facility project to provide a capability to assess aircraft hardness to electromagnetic transient environments to meet MILSTD 464 requirements.
- Continued the system development phase of the Land and Sea Vulnerability Test Capability project to provide an instrumented land-sea interface test capability at the Aberdeen Test Center.
- Continued the system development phase of the Multi-Service Target Control System project to provide upgraded target control systems that meet tri-Service requirements.
- Continued the Test Technology Development and Demonstration (TTD&D) project
- Continued the Tri-Service and CTEIP support projects
- Continued threat system simulator development efforts under the Threat System Simulator Development project to improve integration,

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reduce potential duplication in threat and target development, and ensure that accurate, cost-effective representations of threat systems are available to support testing

- Initiated the concept development phase of the Soft Impact Location Capability project to provide the necessary instrumentation, signal processing, communication, and data processing capabilities to detect and locate the point and angle of impact of projectile and missile weapons within an 800m by 800m impact area
- Initiated the Hardened Sub-Miniature Telemetry and Sensor System Product Improvement project to develop and demonstrate a new generation of rugged, miniaturized, on-board instrumentation applicable to smart munitions flight tests
- Initiated the Digital Video Systems Development (DVSD) project to provide DoD test and evaluation facilities and ranges new capabilities to collect, process, store, and distribute data from high-performance digital imagery systems
- Initiated the system development phase of the Advanced Instrumentation Data & Control System project to develop state-of-the-art instrumentation and control systems to meet DoD T&E requirements for propulsion systems, aerodynamic systems and space systems

Resource Enhancement Project:

- Completed the Countermeasure Threat Emulator subproject to fabricate programmable countermeasure devices to emulate foreign countermeasures that can be deployed from submarines or surface ships
- Completed the Geometric Automated Video Enhanced Location System subproject to locate events / detonations needed to answer accuracy critical operational issues (COIs) for Army field artillery systems, Army airborne systems, and Marine non-lethal weapon systems
- Completed the Geometric Pairing subproject to design and develop a geometric pairing (pointing) device to be used with Air Defense weapons against aircraft during Comanche operational test
- Completed the Information Assurance Suite subproject to select commercial off-the-shelf (COTS) hardware, instrumentation, and systems that can be utilized to test vulnerability to information warfare techniques
- Completed the Intelligence Modeling and Simulation for Evaluation subproject to develop a computer based high-fidelity simulation to accurately represent the disposition of enemy forces, the tasking and collection of intelligence sensors, generation of intelligence messages, and delivery of intelligence products to appropriate users
- Completed the NAIC Aircraft Threat Models development for F-22 Air Combat Simulation subproject to provide air combat threat models required for virtual simulations being developed for F-22 test and evaluation
- Completed the SA-XX Modifications subproject to provide a critical modern missile seeker test capability and to provide a key threat simulator for the RF countermeasures portion of the IDECM suite
- Completed the XM-11S subproject to correct fidelity deficiencies of the XM-11S Simulator antenna, transmitter, and receiver subsystems
- Continued the Shallow Water ASW Target subproject to modify an existing, manned diesel-electric research submarine for use as an Anti Submarine Warfare (ASW) target to support Mk 54 and Mk 48 ADCAP torpedo testing
- Continued the Radio Frequency Phase Distribution Upgrade subproject, which procures Advanced Tactical Electronic Warfare Simulator (ATEWES) Microwave Phase Distribution (MDS) hardware and develops software subsystems to meet EA-6B Improved Capability (ICAP) III LR-700 receiver upgrade and planned follow-on interferometer receiver systems test
- Continued to identify candidate subprojects based on critical OT&E test capability shortfalls

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- Initiated and completed Project Memorex to digitally record threat modes and translate into simulator data files for the Combat Electromagnetic Environment Simulator
- Initiated and completed the Nellis Combined Air Operations Center (CAOC) Joint Tactical Information Distribution System (JTIDS) Test equipment subproject to provide JTIDS recording, playback, monitoring and simulation
- Initiated the Standoff Cloud Referee System subproject to provide real time information on simulant aerosol cloud location, movement and concentration
- Initiated the Advanced Electronically Steerable Array (AESA) Jammer subproject to develop a simulator that can replicate three threat ground-to-air jammers
- Initiated the Commander Air Defense Environment Test Tool subproject to develop a test tool to emulate, stimulate and evaluate the Single Integrated Air Picture C4I system of systems in support of the Area Air Defense Commander
- Initiated the Common Vehicular Instrumentation Initiative subproject to develop a new generation of modular instrumentation to support vehicle and platform testing
- Initiated the Flexible Interoperable Transceiver (FIT) Execution subproject to support the engineering effort required to incorporate the FIT protocols and spectrum efficient technologies in the design of the new Mobile Automated Instrumentation Suite transceivers
- Initiated the Joint Information Assurance Laboratory subproject to develop a T&E capability based on a notional Global Information Grid configured to replicate the war fighter's operational environment
- Initiated the Susceptibility Testing for Global Air Traffic Management Avionics subproject to define at the message level a signal set of harmful transmissions and develop an analysis capability to support evaluation of aircraft susceptibility
- Initiated the Weapon Set-to-Hit Threat Target subproject to provide an unmanned, cost effective target for conducting set-to-hit testing of existing and future torpedoes

Official Travel:

Performed official travel to carry out oversight of the CTEIP program

FY 2003 Plans:

JIM Projects:

- Complete the development of the Super High-Speed Visible (SHV) camera and the integration of an infrared sensor with the SHV, under the ASV project
- Complete development of the Roadway Simulator capability for heavy truck testing and continue development of a capability for tractor-trailer combination testing
- Complete threshold requirements of the Airborne Icing Tanker project to develop an airborne icing capability for testing various DoD aircraft systems at both high and low altitude, suitably presenting natural rain and icing conditions
- Complete the DVSD project to provide DoD test and evaluation facilities and ranges new capabilities to collect, process, store, and distribute data from high-performance digital imagery systems
- Complete efforts under the Advanced Range Telemetry project to improve the efficiency, reliability, utility, and availability of aeronautical telemetry spectrum by adapting advances in commercial communications technology

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- Complete the concept development phase and initiate the systems development phase of the Soft Impact Location Capability project to provide the necessary instrumentation, signal processing, communication, and data processing capabilities to detect and locate the point and angle of impact of projectile and missile weapons within an 800m by 800m impact area
- Complete the Electromagnetic Environment Effects Generating System project to provide a multi-service test facility capable of assessing actual performance of a full-scale, fixed, or rotary-winged aircraft completely immersed in a user-specified radio frequency environment
- Complete the Tri-Service Signature Measurement and Database System project to provide the capability to characterize the detailed spatial, spectral, and temporal signatures of aircraft, missiles, ground vehicles, ships, undersea vehicles, and their countermeasures in realistic environments
- Complete the concept development phase and initiate the system development phase of the Enhanced Range Applications Project to provide a state-of-the-art Airborne Range Data System that supports the next generation data collection requirements
- Complete the concept development phase and initiate the system development phase of the Joint C4ISR project to develop a capability to test increasingly complex multi-discipline fusion concepts
- Complete the concept development phase and initiate the systems development phase of the Joint Data Acquisition Network Standards project to provide a suite of standards to establish component interoperability within a vehicular data acquisition network
- Complete the concept development phase and initiate the systems development phase of the Contamination Avoidance Detector Test Suite project to provide test methodology, instrumentation, and test fixtures required to test and evaluate current and developmental CB detector systems over the entire range of expected use conditions
- Continue the Hardened Sub-Miniature Telemetry and Sensor System Product Improvement project to develop and demonstrate a new generation of rugged, miniaturized, on-board instrumentation applicable to smart munitions flight tests
- Continue the Infrared Sensor Stimulator product improvement, and initiate the Advanced Radar Environment Stimulator project and the Communications, Navigation and Identification follow-on project, under the Joint Installed Systems Test Facility Product Improvements project, to provide improved installed systems capabilities needed to support next generation aircraft testing
- Continue the development and demonstration of time-space-position information (TSPI), flight termination / safe arm (FTSA), and Telemetry functions on advanced missile platforms under the Joint Advanced Missile Instrumentation project
- Continue the system development phase of the Decade Radiation Test Facility--Enhanced project to develop and field an upgraded, above ground, ionizing radiation test capability to meet existing and emerging nuclear weapons effects test requirements
- Continue the system development phase of the Advanced Instrumentation Data & Control System project to develop state-of-the-art instrumentation and control systems to meet DoD T&E requirements for propulsion systems, aerodynamic systems and space systems
- Continue the system development phase of the Electromagnetic Transient Test and Evaluation Facility project to provide a capability to assess aircraft hardness to electro-magnetic transient environments to meet MILSTD 464 requirements
- Continue the system development phase of the Land and Sea Vulnerability Test Capability project to provide an instrumented land-sea interface test capability at the Aberdeen Test Center
- Continue the system development phase of the Multi-Service Target Control System project to provide upgraded target control systems that meet tri-Service requirements
- Continue the Test Technology Development and Demonstration project

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- Continue the Tri-Service and CTEIP support projects
- Continue threat system simulator development efforts under the Threat System Simulator Development project to improve integration, reduce potential duplication in threat and target development, and ensure that accurate, cost-effective representations of threat systems are available to support testing
- Continue the DVL project to provide digital video data analysis and reporting capability
- Initiate standardization of the TENA object model and continue development of software tools and integration products within the Foundation Initiatives 2010 project
- Initiate the Joint Directed Energy Combat Operations and Employment project to develop a master range plan for directed energy weapons test and evaluation capabilities
- Initiate and complete concept development, and initiate systems development, for a project to develop a UHF digital flight termination system for DoD unmanned flight vehicles

Resource Enhancement Project:

- Complete the Standoff Cloud Referee System subproject to provide real time information on simulant aerosol cloud location, movement and concentration
- Complete the Shallow Water ASW Target subproject to modify an existing, manned diesel-electric research submarine for use as an Anti ASW target to support Mk 54 and Mk 48 ADCAP torpedo testing
- Complete the Radio Frequency Phase Distribution Upgrade subproject, which procures Advanced Tactical Electronic Warfare Simulator (ATEWES) Microwave Phase Distribution (MDS) hardware and develops software subsystems to meet EA-6B Improved Capability (ICAP) III LR-700 receiver upgrade and planned follow-on interferometer receiver systems test
- Complete the AESA Jammer subproject to develop a simulator that can replicate three threat ground-to-air hammers
- Complete the Commander Air Defense Environment Test Tool subproject to develop a test tool to emulate, stimulate and evaluate the Single Integrated Air Picture C4I system of systems in support of the Area Air Defense Commander
- Complete the Common Vehicular Instrumentation Initiative subproject to develop a new generation of modular instrumentation to support vehicle and platform testing
- Complete the FIT Execution subproject to support the engineering effort required to incorporate the FIT protocols and spectrum efficient technologies in the design of the new Mobile Automated Instrumentation Suite transceivers
- Complete the Joint Information Assurance Laboratory subproject to develop a T&E capability based on a notional Global Information Grid configured to replicate the war fighter's operational environment
- Complete the Susceptibility Testing for Global Air Traffic Management Avionics subproject to define at the message level a signal set of harmful transmissions and develop an analysis capability to support evaluation of aircraft susceptibility
- Complete the Weapon Set-to-Hit Threat Target subproject to provide an unmanned, cost effective target for conducting set-to-hit testing of existing and future torpedoes
- Continue to identify candidate subprojects based on critical OT&E test capability shortfalls
- Initiate the Advanced Mine Simulation System subproject to provide significant improvements to existing threat mine simulation test capabilities

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- Initiate and complete the Biological Referee Instrumentation Towers subproject to provide mobile instrumentation equipment to support biological detection testing in multiple operational environments
- Initiate the Advanced System Endgame Methodology for Actual Threat Systems subproject to develop and integrate emerging technology for high fidelity, real time endgame assessment for threat system engagements in support of Comanche operational testing
- Initiate the Fire and Forget Missile Van Integration subproject to instrument and integrate critical MANPAD threats to evaluate F/A-18 expendable countermeasure effectiveness
- Initiate and complete the Threat Signals A subproject to develop and implement new threat surface-to-air missile system signals in the Joint Communications Simulator to ensure testing in an operationally dense and coherent scenario based environment
- Initiate and complete the Battle Command Test Instrumentation subproject to provide instrumentation network encryption test capability to allow test operations to monitor and control geographically distributed platforms in a classified tactical operational environment and collect data on Battle Command on the Move
- Initiate the Seeker Integration subproject to characterize and integrate recently received foreign hardware into the ECR at China Lake, CA to support ongoing electronic countermeasure testing
- Initiate the Dense Environment Radio Frequency Injection subproject to develop and implement an RF signal simulator system to provide direct injection of a dense RF environment in to the system under test
- Initiate and complete the Scenario and Test Drivers subproject to modify the existing Simulation Injection and Generation System to include updated threat missile warning scenarios
- Initiate tasks/subprojects to resolve critical near term OT&E test capability shortfalls

Official Travel:

Perform official travel to carry out oversight of the CTEIP program

FY 2004 Plans:

JIM Projects:

- Complete development of the Roadway Simulator capability for tractor-trailer combination testing
- Complete the Electromagnetic Transient Test and Evaluation Facility project to provide a capability to assess aircraft hardness to electromagnetic transient environments to meet MILSTD 464 requirements
- Complete the Multi-Service Target Control System project to provide upgraded target control systems that meet tri-Service requirements
- Complete the Test Technology Development and Demonstration project
- Complete standardization of the TENA object model and the development of software tools and integration products within the Foundation Initiatives 2010 project
- Complete the DVL project to provide digital video data analysis and reporting capability
- Complete the Joint Directed Energy Combat Operations and Employment project to develop a master range plan for directed energy weapons test and evaluation capabilities
- Complete the project to develop and demonstrate a new generation of rugged, miniaturized, on-board instrumentation applicable to smart munitions flight tests, within the Hardened Sub-Miniature Telemetry and Sensor System Product Improvement project

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- Continue the Land and Sea Vulnerability Test Capability project to provide an instrumented land-sea interface test capability at the Aberdeen Test Center
 - Continue the systems development phase of the Soft Impact Location Capability project to provide the necessary instrumentation, signal processing, communication, and data processing capabilities to detect and locate the point and angle of impact of projectile and missile weapons within an 800m by 800m impact area
 - Continue the systems development phase of the Joint Data Acquisition Network Standards project to provide a suite of standards to establish component interoperability within a vehicular data acquisition network
 - Continue the Infrared Sensor Stimulator product improvement, and the Advanced Radar Environment Stimulator project, and the Communications, Navigation and Identification follow-on under the Joint Installed Systems Test Facility Product Improvements project, to provide improved installed systems capabilities needed to support next generation aircraft testing
 - Continue the development and demonstration of time-space-position information (TSPI), flight termination / safe arm (FTSA), and Telemetry functions on advanced missile platforms under the Joint Advanced Missile Instrumentation project
 - Continue the system development phase of the Decade Radiation Test Facility--Enhanced project to develop and field an upgraded, above ground, ionizing radiation test capability to meet existing and emerging nuclear weapons effects test requirements
 - Continue the system development phase of the Advanced Instrumentation Data & Control System project to develop state-of-the-art instrumentation and control systems to meet DoD T&E requirements for propulsion systems, aerodynamic systems and space systems
 - Continue the system development phase of the Contamination Avoidance Detector Test Suite project to provide test methodology, instrumentation, and test fixtures required to test and evaluate current and developmental CB detector systems over the entire range of expected use conditions
 - Continue the system development phase of the Enhanced Range Applications Project to provide a state-of-the-art Airborne Range Data System that supports the next generation data collection requirements
 - Continue the system development phase of the Joint C4ISR project to develop a capability to test increasingly complex multi-discipline fusion concepts
 - Continue the Tri-Service and CTEIP support projects
 - Continue threat system simulator development efforts under the Threat System Simulator Development project to improve integration, reduce potential duplication in threat and target development, and ensure that accurate, cost-effective representations of threat systems are available to support testing
 - Continue systems development for a project to develop a UHF digital flight termination system for DoD unmanned flight vehicles
 - Initiate concept development for a project to develop a network-enhanced telemetry capability for T&E ranges and facilities
 - Initiate concept development for an advanced range radar to perform common test and evaluation range tracking functions required for next generation weapon systems and targets
 - Initiate concept development for improved test and evaluation capabilities for directed energy weapons
- Resource Enhancement Project:
- Complete the Advanced Mine Simulation System subproject to provide significant improvements to existing threat mine simulation test capabilities

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- Complete the Advanced System Endgame Methodology for Actual Threat Systems subproject to develop and integrate emerging technology for high fidelity, real time endgame assessment for threat system engagements in support of Comanche operational testing
- Complete the Fire and Forget Missile Van Integration subproject to instrument and integrate critical MANPAD threats to evaluate F/A-18 expendable countermeasure effectiveness
- Complete the Seeker Integration subproject to characterize and integrate recently received foreign hardware into the ECR at China Lake, CA to support ongoing electronic countermeasure testing
- Complete the Dense Environment Radio Frequency Injection subproject to develop and implement an RF signal simulator system to provide direct injection of a dense RF environment in to the system under test
- Continue to identify candidate subprojects based on critical OT&E test capability shortfalls
- Initiate and continue tasks/subprojects to resolve critical near term OT&E test capability shortfalls

Official Travel:

Perform official travel to carry out oversight of the CTEIP program

FY 2005 Plans:

JIM Projects:

- Complete the Land and Sea Vulnerability Test Capability project to provide an instrumented land-sea interface test capability at the Aberdeen Test Center
- Complete the development and demonstration of time-space-position information (TSPI), flight termination / safe arm (FTSA), and Telemetry functions on advanced missile platforms under the Joint Advanced Missile Instrumentation project
- Complete concept development and initiate systems development for the project to develop a network-enhanced telemetry capability for T&E ranges and facilities
- Complete concept development and initiate systems development for an advanced range radar to perform common test and evaluation range tracking functions required for next generation weapon systems and targets
- Complete concept development and initiate systems development for improved test and evaluation capabilities for directed energy weapons
- Continue the systems development phase of the Soft Impact Location Capability project to provide the necessary instrumentation, signal processing, communication, and data processing capabilities to detect and locate the point and angle of impact of projectile and missile weapons within an 800m by 800m impact area
- Continue the systems development phase of the Joint Data Acquisition Network Standards project to provide a suite of standards to establish component interoperability within a vehicular data acquisition network
- Continue the Infrared Sensor Stimulator product improvement, the Advanced Radar Environment Stimulator project, and the Communications, Navigation and Identification follow-on under the Joint Installed Systems Test Facility Product Improvements project, to provide improved installed systems capabilities needed to support next generation aircraft testing
- Continue the system development phase of the Decade Radiation Test Facility--Enhanced project to develop and field an upgraded, above ground, ionizing radiation test capability to meet existing and emerging nuclear weapons effects test requirements

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- Continue the system development phase of the Advanced Instrumentation Data & Control System project to develop state-of-the-art instrumentation and control systems to meet DoD T&E requirements for propulsion systems, aerodynamic systems and space systems
- Continue the system development phase of the Contamination Avoidance Detector Test Suite project to provide test methodology, instrumentation, and test fixtures required to test and evaluate current and developmental CB detector systems over the entire range of expected use conditions
- Continue the system development phase of the Enhanced Range Applications Project to provide a state-of-the-art Airborne Range Data System that supports the next generation data collection requirements
- Continue the system development phase of the Joint C4ISR project to develop a capability to test increasingly complex multi-discipline fusion concepts
- Continue the Tri-Service and CTEIP support projects
- Continue threat system simulator development efforts under the Threat System Simulator Development project to improve integration, reduce potential duplication in threat and target development, and ensure that accurate, cost-effective representations of threat systems are available to support testing
- Continue systems development of the project to develop a UHF digital flight termination system for DoD unmanned flight vehicles
- Initiate concept development for data management technology improvements, within the Foundation Initiatives 2010 project

Resource Enhancement Project:

- Continue to identify candidate subprojects based on critical OT&E test capability shortfalls
- Initiate and continue tasks/subprojects to resolve critical near term OT&E test capability shortfalls

Official Travel:

Perform official travel to carry out oversight of the CTEIP program

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B. (U) PROGRAM CHANGE SUMMARY

(\$ in Millions)	<u>FY 2002</u> <u>Appropriation</u>	<u>FY 2003</u> <u>President's</u> <u>Budget</u>	<u>FY 2004</u> <u>President's</u> <u>Budget</u>	<u>FY 2005</u> <u>President's</u> <u>Budget</u>
FY 2003 President's Budget	131.720	123.276	125.286	126.923
Current Budget Submit	127.090	122.294	123.215	124.444
Total Adjustments	(4.630)	(0.982)	(2.071)	(2.479)
Congressional Program Reductions		(3.540)		
Congressional Rescissions	(0.630)			
Congressional Increases				
Digital Video Lab		2.500		
Joint Directed Energy Combat Operations Employment		1.000		
Reprogramming	(4.000) ¹			
Inflation Adjustment		(0.942)	(2.071)	(2.479)

Notes:

1. Transfer of Big Crow from PE 0605941D to 060580D4 (4.000)

C. (U) OTHER PROGRAM FUNDING NA