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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2) | | | | February 2004 | | | |
| OPERATIONAL TEST AND EVALUATION, DEFENSE (0460) BUDGET ACTIVITY SIX | | DEVELOPMENT TEST AND EVALUATION (DT&E) PROGRAM ELEMENT (PE) 0605804D8Z | | | | | |
| \$'s in Millions | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 |
| PE 0605804D | 63.426 | 104.381* | 112.679* | 114.748* | 117.325* | 119.595* | 122.844* |

*Includes transfer of funds for JT&E transferred from PE 0605804D8Z in the RDT&E Defense-Wide Appropriation 0400 to PE 0605804D8Z in the OT&E,D Appropriation 0460

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

This program element consists of two programs: Test and Evaluation (T&E) Programs and T&E Independent Activities.

The T&E programs are continuing efforts that provide management and oversight of DoD T&E functions and T&E expertise to the DoD. T&E Programs now consist of five activities: Joint Test and Evaluation (JT&E), Threat Systems (TS); Center for Countermeasures (CCM), Joint Technical Coordinating Group on Munitions Effectiveness (JTTCG/ME) and Joint Aircraft Survivability Program (JASP). The Department transferred the JT&E program from the Under Secretary of Defense (Acquisition, Technology and Logistics) to the DOT&E effective 9 December 2002. Funding for JT&E remained in Appropriation 0400 through FY 2003 and moved to Appropriation 0460 starting in FY 2004.

JT&E programs are process, rather than product, focused T&E activities conducted in a joint military environment. These multi-Service programs, chartered by OSD and coordinated with the Joint Staff and Services, provide improvements in interoperability of Service systems, improvements in technical and operational concepts, solutions to joint operational issues, development and validation of joint test methodologies, and data for validating models, simulations and test beds. JT&E programs solve relevant warfighter issues in a joint T&E environment, develop and improve Joint Test Capabilities and Methodologies.

TS provides OSD policy and oversight to Component threat systems and target developments to ensure increased commonality, minimize duplications and provide consistent threat representation validation for T&E. TS funds the management and oversight

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functions for development of common use threat specifications for threat simulators, threat representative targets and digital threat models used for T&E; integration of T&E requirements for Foreign Material Acquisition (FMA); DoD validation of threat simulators, threat representative targets, and digital threat models; analysis of advanced threat technology applications for simulators and targets; and investigation of new approaches and methods for conducting operational testing of systems and their interoperability in a realistic threat environment.

CCM, a Joint Service Countermeasure (CM) T&E Center, conducts analysis, T&E, and assessment of U.S. and Foreign Electro-Optical (EO), Infrared (IR), and Millimeterwave (MMW) precision guided weapons (PGW) and systems, countermeasures, counter-countermeasures, and warning devices for the Services, T&E Agencies, the Intelligence Community, and Homeland Defense. CCMs staff and the CM knowledge base developed over 30 years provide the DoD acquisition community and the warfighting Combatant Commanders with the information and expertise necessary to ensure the survival of U.S. forces on the increasingly hostile modern battlefield.

The JTTCG/ME was chartered by the Joint Logistics Commanders (JLC) over 30 years ago to serve as DoD's focal point for authenticated non-nuclear munitions effectiveness information (Joint Munitions Effectiveness Manuals (JMEMs)) on all US major non-nuclear weapons. The JTTCG/ME, under the auspices of the JLCs, authenticates weapons effectiveness data for use in training, systems acquisition, weaponeering, procurement, and combat modeling. JMEMs are used by the Armed Forces of the United States, NATO and other allies to plan operational missions, support training and tactics development, and support force-level analyses. The JTTCG/ME also develops and standardizes methodologies for evaluation of munitions effectiveness and maintains databases for target vulnerability, munitions lethality and weapon system accuracy. Based on Lessons Learned from recent operations (Southern/Northern Watch, Enduring Freedom, Iraqi Freedom), the Combatant Commands (COCOMs) and Services identified that JMEM data and methodology voids exist due to new weapon systems, evolving target sets and a more stringent operating environment. As a result of Joint Staff J8 review and endorsement, the DoD increased the JTTCG/ME budget to correct these deficiencies. The FY 2005-09 plus-up will develop target geometry models (e.g., surface mobile/fixed, air, hard/deeply buried and ship targets) and vulnerability data. These data will be combined with weapons characteristics, delivery accuracies and methodology enhancements to produce effectiveness indices for the specific weapon-target pairings identified by the COCOMs and Services. JASP and JTTCG/ME co-chair the Survivability/Vulnerability Information Analysis Center (SURVIAC) Technical Coordinating Group (TCG).

The Joint Logistics Commanders (JLC) originally chartered the JASP in 1971 to serve as DoD's focal point for the joint service community to enhance the non-nuclear combat survivability of aircraft. The Tri-Service Joint Aeronautical Commanders Group (JACG) rechartered this program, which acts as the DoD focal point for aircraft susceptibility and vulnerability reduction research as well as survivability modeling and simulation (M&S) methodology. The JASP is the Executive Agent for the Joint Live Fire

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Aircraft Program managed by the Live Fire Test office of the Director, Operational Test & Evaluation (DOT&E). The JASP also develops and standardizes methodologies for the evaluation of aircraft survivability (susceptibility and vulnerability) to threat weapons.

T&E Independent Activities is the only source of funding for the DOT&E for studies, analyses, management and technical support, on a continuing basis, in support of policy development, decision-making, management and oversight of the DoD test and evaluation policies, infrastructure and resources, including stewardship of the Major Range and Test Facility Base (MRTFB) and transformation of test methods and infrastructure to ensure that future defense systems provide necessary Joint Warfighting capabilities. Studies and analyses examine the implications and consequences of current and proposed policy, plans, operations, strategies, and budgets and are essential for the oversight and management of the DOT&E mission. Especially important are a series of studies and policy efforts, collectively labeled sustainable range management, that address encroachment, use of RF spectrum, compliance with environmental laws and regulations, and unexploded ordnance. The Defense Test and Evaluation Professional Institute (DTEPI) provides computer-based training and on-line web-based training to the DoD T&E community in technical T&E subjects.

Funds are used to perform official travel related to the activities within this program element.

This Research Category 6.5 PE supports management activities for the DOT&E oversight responsibility for T&E and the MRTFB.

Program Accomplishments and Plans:

FY 2003 Accomplishments:

T & E Programs

- JT&E:

The JT&E discussion of FY 2003 accomplishments is also located in the RDT&E Defense-Wide Appropriation 0400 justification under Developmental Test and Evaluation PE 0605804D8Z.

- Completed the Joint Close Air Support (JCAS) test which improved the operational effectiveness of joint U.S. forces conducting close air support (CAS). This improvement was accomplished by assessing current equipment, training, and joint employment doctrine for CAS operations. JCAS test products included Joint and Service publications changes and continuing support as a Joint Requirements Oversight Council (JROC) sponsored organization. USAF lead, USA, USN, and USMC participation.
- Completed the Joint Shipboard Helicopter Integration Process (JSHIP) which developed a process for certification and integration of Army and Air Force helicopters on-board Navy ships to give joint force commanders information to enable

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effective, efficient, and safe joint shipboard interoperability. JSHIP test products included the Joint Shipboard Helicopter Integration Planning Guidance and Procedures Document which provides the guidance for certification and integration of Army and Air Force helicopters to safely operate onboard Navy ships. Additionally, JSHIP developed an interactive Web and CD-based reference and training program for Army and Air Force units. USN lead, USA, USAF, and USMC participation.

- Continued the Joint Battle Damage Assessment (JBDA) test, which is developing and testing procedures to improve the accuracy and timeliness of BDA support at key points in the Joint Force Commander's decision making cycle. JBDA's focus is BDA reporting. Test products to the warfighter include C4I enhancements institutionalized in ADOCS and other C4I systems, a Commander's Handbook for joint BDA, and BDA training CDs for distribution to combatant customers. USA lead, USAF, USN, and USMC participation.
- Continued the Joint C2 Intelligence, Surveillance, and Reconnaissance (JC2ISR) test, which is developing products that will improve the Joint Task Force Commander's capability to locate high value, high payoff targets, and conduct combat assessment by improving joint command and control, intelligence, and reconnaissance sensor management tactics, techniques, and procedures; concept of operations; and training. Test products to the warfighter include Risk Analysis Tools & Handbook guidance for combatant command J6 staff and the Services for assessing mission risk. USAF lead, USA, USN, and USMC participation.
- Continued the Joint Cruise Missile Defense (JCMD) test, which is developing improvements to U.S. joint integrated air defense systems (JIADS) that will enhance their effectiveness against the threat of a cruise missile attack. JCMD will quantify the effects of procedural and hardware enhancements to JIADS in a cruise missile defense role and make recommendations for improvements to combatant commanders and the Services. JCMD test products include reference handbooks for combatant commanders and a rigorous testing methodology for cruise missile defense testing. USAF lead, USN, USA, and USMC participation.
- Continued the Joint Global Positioning System Combat Effectiveness (JGPSCE),
- Continued the Joint Logistics/Planning Enhancement (JLOG/PE) test, which is identifying logistics information and process enhancements to improve the accuracy of sustainment planning to in-theater forces. Test products to the warfighter include process improvements to Joint and Service logistics documents as well as training requirements. USA Lead. USMC participation.
- Continued the Joint Methodology to Assess C4ISR Architecture (JMACA) test, which is developing a set of tools to assess the Joint Task Force integrated command, control, communications, and computers, intelligence, surveillance, and reconnaissance (C4ISR) architecture. JMACA is working closely with USJFCOM Joint Battle Management Command and Control (JBMC2) office to transition the JMACA Methodology as their standard C4ISR interoperability tool. USN Lead. USA participation.
- Continued the Joint UAV for Time Sensitive Operations (JUAV-TSO) test, which is developing joint, platform independent tactics, techniques, and procedures for unmanned aerial vehicle (UAV) employment to support warfighters

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performing time-sensitive air interdiction, fire support, and personnel recovery missions. USN Lead. USAF and USA participation.

- Continued the Joint Data Link Information Combat Execution (JDICE) test, which is developing test solutions to shortfalls in tactical datalink information exchange capabilities across sensor, command and control, and “shooter” datalink capable networks as documented by Combatant commanders’ during combat operations in Kosovo and Afghanistan. USAF Lead.
- Initiated the Joint Space Control Operations (Negation) (JSCO(N)) Joint Feasibility Study focused on the “deny” portion of the space control mission area. If chartered, they are planning to test and evaluate the Joint Force Commander’s Command and Control (C2) processes and Joint Tactics, Techniques, and Procedures (JTTPs) used to employ space control negation effects against an adversary’s space capabilities. Current target planning and assessment capabilities will be baselined to identify potential improvements to these processes for the Joint warfighter. Expected test products, will update Joint Publications and Transformation Change Proposals (TCPs) submitted through USJFCOM with Doctrine, Organization, Training, Materiel, Leadership, Personnel, and Facilities (DOTMLPF) recommendations. USAF lead.
- Initiated the Joint Integration and Interoperability of Special Operations (JIISO) Joint Feasibility Study proposing to test and improve the integration and interoperability of Special Operations Forces (SOF) and Conventional Forces (CF) mission planning and execution capabilities in support of joint missions. This test will evaluate current and enhanced Joint Tactics, Techniques, and Procedures (JTTPs) and supporting information environments (IE) used to plan and execute these types of tactical missions. Expected test products, if chartered, will update Joint Publications, operational process models, and Transformation Change Proposals (TCPs) submitted through USJFCOM with DOTMLPF recommendations. USSOCOM lead.
- Initiated the Joint Urban Fires and Effects (JUFE) Joint Feasibility Study proposing to analyze current joint doctrine, equipment, organizations, and training to develop more efficient means to prosecute joint fires in urban terrain. The test will evaluate current Joint Tactics, Techniques, and Procedures (JTTPs) and supporting C3I architectures used to plan and execute these tactical missions. Expected test products, if chartered, will update Joint publications and training requirements that focus on curriculum modifications to sufficiently cover urban fires considerations. USJFCOM lead.
- Initiated Joint Survivability (JSURV) as a short-term test to assess potential solutions and make recommendations to reduce tactical vehicle casualties in Operation Iraqi Freedom. JSURV is conducting a rapid analysis of the problem and will produce recommendations on TTP and/or materiel solutions to USCENTCOM and the Services to directly reduce US casualty rates in Iraq. US Army lead, USMC and USAF participation.
- Threat Systems:
 - Simulators
 - Completed initiation of test cases to implement the process to effectively utilize threat representative targets as true distributed test resources in support of multi-Service interoperability testing in a realistic threat environment

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- Completed the design of tool sets, creation of methodologies, and production operational standards for measures of effectiveness and interoperability testing of the test cases
- Completed collaborative efforts to provide support for interoperability testing in a realistic threat environment
- Continued the cooperative technical research and test bed projects to ensure threat representation (e.g., UV Calibration and Verification System Distribution Study, IR MANPADS Endgame Methodology, Dynamic Clutter Modeling for Radar Environment Simulator, and End-to-End Requirements Study (E2E)) adequacy for T&E
- Continued threat support to T&E through investigations of current scientific and technical intelligence information for insertion in Service threat representation modeling programs (e.g., Laser Beam Rider Simulator Integration, IR SAM Design of Experiments, High Fidelity Early Warning Sensor Modeling, and Infrared Missile Plume Signature)
- Continued oversight of Service threat simulators and threat digital models
- Continued to provide the tools to exchange the latest scientific and technological information between T&E and intelligence communities (e.g., Project Lusty - MiG Live Fire Evaluation, and Tests Event Model (TEM))
- Executed the DoD validation program for threat simulators and threat digital models
- Initiated technical investigations to identify solutions for effectively representing asymmetric threats to include Chemical, Biological, Radiological, and Nuclear (CBRN); Information Warfare (IW); and terrorism-related threats to Homeland Defense in testing of U.S. weapons systems
- Provided oversight of Service activities in support of the DoD validation program for Service threat simulators and threat digital models
- Provided threat assessment for DOT&E planning and evaluation
- Updated the Automated Threat Systems Handbook to maintain inventory of threat representative assets available for the T&E community
- Targets
 - Completed initiation of test cases to implement the process to effectively utilize threat representative targets as true distributed test resources in support of multi-Service interoperability testing in a realistic threat environment
 - Completed the design of tool sets, creation of methodologies, and production operational standards for measures of effectiveness and interoperability testing of the test cases
 - Completed collaborative efforts to provide support for interoperability testing in a realistic threat environment
 - Continued oversight of Service threat representative target programs
 - Provided OSD seed funds to prototype solutions to highest priority deficiencies in current target systems (e.g., Threat 'D' Study, Interferometric Inverse Synthetic Aperture Radar (IFISAR) --3-D Radar, Low Earth Orbit Satellite Target Control System (LEOS TCS)), and Rocket Assisted Take Off (RATO) Technology

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- Provided oversight of the Service activities in support of the DoD validation program for Service threat representative targets
- Supported the implementation of new target modeling and simulation capabilities /tools that meet multi-Service T&E needs within common/DoD standard architectures (e.g., Subscale Aerial Target (SSAT) IR Countermeasures, Mobile Acoustic Source, Advanced Off Board Countermeasures, Subscale Aerial Target (SSAT) IR Signature Augmentation, Derived Radar Altitude Penetration Enhancement (DRAPE), and Decoy and Countermeasures)
- Center for Countermeasures:
 - CCM tested, analyzed, reported, and assessed over 40 US and foreign PGW systems/components, countermeasures, and threat-warning systems and other activities and programs, as listed below:
 - Air Force:
 - HH-60G Self Protection System (SPS), Air National Guard Air Force Reserve Test Center (AATC) Comet, Advanced Strategic and Tactical Expendables (ASTE), A-10/F-16 Force Development Evaluation (FDE), CV-22, LAZARUS, BLADES, and Joint Precision Autonomous Landing System (JPALS)
 - Army:
 - Comanche Defensive Suite, XM-982 Excalibur, Joint Common Missile, Hellfire and Hellfire II, Longbow Apache, and VVR-3 and AVR-2B warning receivers
 - Navy/Marines:
 - Vertical Take-Off Unmanned Aerial Vehicle (VTUAV), Advanced Targeting Forward Looking Infrared (ATFLIR), SHIELDS/IEWS, ERGM, Kinematic Flare development, MV-22, Advanced 6" Expendable (A6E), Shipboard Laser Acquisition System (SBLAS), and Joint Standoff Weapon (JSOW)
 - Foreign:
 - Foreign Rangefinder Exploitation Evaluation (FREE) G series, Night Attack Vision Exploitation (NAVE) G series, Foreign Laser Beamrider (FLBR), Foreign Laser Guided Projectiles (FLGP), WHEAT SPEAR, Foreign Active Protection System (FAPS) II, and Foreign Global Positioning System (FGPS)
 - M&S:
 - MV and CV-22
 - Airborne Laser (ABL) platform study
 - Laser beamrider digital simulation development
 - US and Foreign additions to flare simulation data base
 - Other:
 - Operation Iraqi Freedom support to multiple Services
 - The Technical Cooperation Program (TTCP), NATO Trial EMBOW

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- Provided CM inputs for evolving programs, identified by the Service Acquisition PEOs/PMs
- CM Warfare Initiative:
 - Coordinated CM Warfare support at the Combatant Command and MAJCOM levels
 - Marine Aviation Weapons and Tactics (MAWTS)-1 training support
 - Provided inputs on EO/IR CM training and equipment and Joint Interoperability Tasks to establish requirements and objectives for operational exercises and simulations
 - Developed software modifications to simulations to reflect EO/IR countermeasures scenarios at the Joint and Component Service level (JCATS, JSIMS, and CASTFOREM)
 - Participated in operational warfighting exercise of the STRYKER Brigade
- Continued to provide technical and analytical expertise in support of DOT&E
- Provided significant contributions to the Joint Man Portable Air Defense Systems (MANPADS) study
- Began measurement and assessment support of the Navy-led Joint Air Transport Measurement (ATM)
- JTCG/ME:
 - Completed conversion/updates of existing JMEMs to CD-ROM format for JMEM Air-to-Surface Weaponeering System (JAWS) v.2.2.3 and v.2.3, Joint Antiair Combat Effectiveness – Air Superiority (J-ACE: AS) v2.1, and JMEM/Surface-to-Surface Weapons Effectiveness System (JWES), v.2.1
 - Developed JMEM data for the most critical Combatant Command identified systems
 - Continued conversion/updates of existing JMEMs to CD-ROM format for Joint Antiair Combat Effectiveness – Air Defense (J-ACE: AD) v2.0
 - Reduced CD-ROM update cycles to a maximum of 14 months, and continued development of a strategy for target-oriented JMEMs
 - Distributed products and incremental updates via the classified internet with the Joint Product and Information Access System (JPIAS) (Books-on-line, Automated products, Models, Tri-Service Data, and Support service)
 - Reduced major methodology shortcomings (vulnerability/lethality, lethal areas/effectiveness indices, etc.)
 - Continued the development of standardized models and methodology for Air-to-Surface, Surface-to-Surface and Anti-air effectiveness calculations (i.e., collateral damage, hardened targets, bridges, buildings, multiple weapon types, real time delivery accuracy/Target Location Error (TLE), and dual stage warheads, helicopter-delivered munitions, and small boat weaponeering)
 - Conducted Configuration Management/Validation, Verification & Accreditation (VV&A) efforts on specific JTCG/ME models (i.e., Joint Services Endgame Model (JSEM), Advanced Joint Effectiveness Model (AJEM), Modular Effectiveness Vulnerability Assessments-Ground Fixed (MEVA-GF), Joint Mean Area Effects (JMAE), Operational Requirements-Based Casualty Assessment (ORCA), Modular UNIX TM-Based Vulnerability Estimation Suite (MUVES), and Advanced Survivability Assessment Program (ASAP)

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- Released the Advanced Joint Effectiveness Model (AJEM) v2.1 (BRL-CAD 6.0, Updated GUI, improved penetration equations, New Encounter-V/L Interface, Improved Man-Portable Air Defense Systems (MANPADS), and LINUX port, ground-mobile documentation
- Conducted an Ad-hoc Working Group to develop a JMEM strategy/plan in support of the DoD High Energy Laser (HEL) program and the Joint Technology Office (JTO)
- Continued to work on red-on-blue effectiveness data and methodology with focus on STRATCOM requirements
- Continued to develop/sanitize JMEM products for foreign customers and coalition operations
- Continued execution and technical coordination efforts to address Target Vulnerability data generation (e.g., Special Operations) and methodology improvements (e.g., counter proliferation, fragment penetration, information operations, non-lethal weapons, blast effects, personnel casualty/ORCA extension, and target model generation)
- Continued Combatant Command data calls in support of FY 2004 program build requirements
- Continued to expand pilot programs for compliance with near-term acquisition programs to support JMEM production at system Initial Operational Capability (IOC)
- Maintained JTCG/ME intelligence requirements account through Defense Intelligence Agency COLISEUM system
- Assessed ability of JTCG/ME Program to support training requirements of operational users for weaponeering applications
- Initiated conversion/updates of existing JMEMs to CD-ROM format for Joint Antiair Combat Effectiveness – Air Superiority (J-ACE: AS) v3.0, and initiated configuration management for Target Vulnerability Data Management System (TVDMS) v2.3
- JASP:
 - Completed the bonded wing survivability project
 - Completed the dynamic loading methodology project
 - Completed the Improved Air Countermeasure with Ultra-fine Aluminum project
 - Completed the Man Portable Air Defense Weapon System (MANPADS) Impact Point assessment project
 - Completed the Advanced Low Altitude Radar Model (ALARM) Maintenance Project
 - Completed the Engine Damage Detection project
 - Completed the proof of concept for weapons bay protection process
 - Completed the Instant Firewalls project
 - Completed the Joint Service Surrogate seeker project
 - Completed the miniaturized countermeasures for Unmanned Air Vehicles (UAVs)
 - Completed the Tier II/III laser susceptibility project
 - Completed the Solid State Laser Pointer project
 - Completed the Susceptibility/Vulnerability to anti-helicopter mines project

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- Completed the WINFIRE/ULLEX project
- Completed Advanced Joint Effectiveness Model (AJEM) Model Maintenance
- Completed the Component Vulnerability Analysis Archive Project
- Completed the Aerogels for retrofitted increases in aircraft survivability project
- Completed the Extended Survivable Engine Control Demonstration (SECAD) Project
- Continued to support the SURVIAC Model Manager and Model Accreditation activities
- Continued to participate on the COVART/FASTGEN and air-to-air (BRAWLER) Configuration Control Boards (CCBs)
- Continued projects to advance and promote aircraft survivability within the Services
- Continued projects to gather and maintain survivability test data and actual combat damage data
- Continued the Ionomer Fuel Containment project
- Continued the Unmanned Air Vehicle (UAV) Active Acoustic Cancellation project
- Continued the Imaging Seeker Aim Point project
- Continued the Dry Bay Fire Model (DBFM) Ignition Phase Validation Data Assessment
- Continued the advanced survivable Rotorcraft Validation project
- Initiated and completed Armor Attachment Techniques Project
- Initiated and completed Simple Passive Extinguisher (SPEX) Project
- Initiated and completed Simulink Air Defense Artillery (ADA) Model Requirements Identification
- Initiated and completed Surface-to-Air Counter Tactics effort
- Initiated and completed the Fire & Explosion Calibration Project
- Initiated and completed Vulnerability – Predator Analysis
- Initiated Aircraft Battle Damage Repair (ABDR) Effectiveness & Durability project
- Initiated Directed Energy Assessment Model (DREAM) V & V activity
- Initiated High Power Wideband Array Project
- Initiated Laser-Focal Plane Array Effects Modeling for Laser Countermeasures Optimization
- Initiated Man Portable Air Defense Systems (MANPADS) Damage Effects Modeling
- Initiated Special Material Urban Decoy
- Initiated the Imaging Infrared (IIR) Sensor and Laser Effects Model Development
- Initiated the Integrated Survivability Analysis project

T&E Independent Activities

- Analysis and oversight of the Department's Test and Evaluation policy, resources and infrastructure, including the Major Range and Test Facility Base (MRTFB) and other key T&E centers, ranges, and capabilities:
 - Developed an OSD twenty-year plan for modernization of test infrastructure and integrated it with existing Component plans

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- Analyzed T&E institutional and customer data in support of policy decisions regarding the composition and management of the MRTFBs
- Monitored and evaluated T&E infrastructure capacity and capability to ensure adequacy to meet requirements for both developmental testing and operational testing
- Developed and issued a summary and database of MRTFB capabilities in coordination with the Military Departments for use in assessing future test capability requirements
- Analyzed MRTFB operations and investment data and proposed issues for the Annual MRTFB Review
- Prepared a Summary Report of financial trends for MRTFB installations and evaluated the results for consistency with current policy and directives
- Analyzed T&E PPBE information for identification and resolution of potential shortfalls during Program and Budget Reviews
- Performed analyses to support budget issue resolution, Congressional responses, etc
- Spectrum Support:
 - Analyzed and reported on alternative options for telemetry operations in higher frequency bands
 - Developed technical alternatives on issues affecting T&E infrastructure
 - Provided technical support to Range Spectrum Requirements Working Group on spectrum issues
- Telemetry Support:
 - Continued to support DOT&E participation in International Consortium for Telemetry Secretary
 - Continued to develop technical approach for Integrated Network Enhanced Telemetry (INET)
 - Performed and conducted special studies on MRTFB radio spectrum issues
- Support to the Test Resource Management Center (TRMC)
 - Assisted in development of policies and organizational structures to implement the TRMC
 - Assisted in the initial operations of the Congressionally-directed Defense Test Resource Management Center
 - Participated in the development of the initial Strategic Plan
 - Developed analytic methodology for certification of the adequacy of T&E budgets
- Special Studies (Examples):
 - Developed a demographic profile of the T&E workforce as part of a Workforce Improvement Plan
 - Performed analyses of the cost and schedule implications of testing
 - Performed a study of the impact of early programmatic decisions on the ultimate execution of long-term test programs
 - Analyzed the effectiveness of selected inter-agency T&E facility agreements to determine whether the agreements provided DoD with necessary access to needed test capabilities

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- Participated in the analyses of the National Aerospace Initiative (NAI) and in the NASA-DoD strategic planning activity for range instrumentation and space launch capabilities
- DTEPI:
 - Completed Live Fire Video Narrative for Defense Acquisition University Course TST-202's Update of Live Fire Block
 - Supported T&E Functional Integrated Product Team
 - Supported Army T&E Basic Course Front End
 - Updated Probability & Statistics Course to insure TST-202 Equivalence
 - Updated Security and reformatted the look of the DTEPI Website
 - Initiated the T&E Primer Course with the Stanford Research Institute
- Official Travel and Administrative Support:
 - Performed official travel in support of the DOT&E oversight of T&E infrastructure
 - Procured administrative support to carry out oversight of DOT&E programs
- Accounting and Financial Management Support:
 - Provided accounting and financial management support to the DOT&E

FY 2004 Plans:

T & E Programs:

JT&E:

- Complete the JGPSCE test, conduct out briefings, distribute the final reports, and transition test products
- Continue the JCMD test
- Continue the JBDA test
- Continue the JC2ISR test
- Continue the JUAV-TSO test
- Continue the JMACA test
- Continue the JLOG-PE test
- Continue the JDICE test
- Continue the JSCO (N), JIISO, and JUFE Joint Feasibility Studies
- Charter one to three DoD Representative Committee-prioritized FY 2004 Joint Feasibility Studies as Joint Tests and commences testing activities
- Conduct JT&E annual review of nominations for potential feasibility studies for conduct in FY 2005
- Determine through DoD Representative Committee prioritization the three or four FY 2004 Feasibility Studies

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- Threat Systems:
 - Simulators
 - Continue to provide the tools to exchange the latest scientific and technological information between T&E and intelligence communities (e.g., Joint Service Surrogate, and IR SAM MATLAB/Simulink)
 - Continue oversight of Service threat simulators and threat digital models
 - Continue technical investigations to identify solutions for effectively representing asymmetric threats to include Chemical, Biological, Radiological, and Nuclear (CBRN); Information Warfare (IW); and terrorism-related threats to Homeland Defense in testing of U.S. weapons systems
 - Continue threat support to T&E through investigations of current scientific and technical intelligence information for insertion in Service threat representation modeling programs (e.g., IR SAM Design of Experiments, IR Air-to-Air Missile Engineering Analysis, Infrared Missile Plume Signature, Hybrid Simulator and Threat 3D Assessment Tool)
 - Continue the cooperative technical research and test bed projects to ensure threat representation (e.g., Seeker Aided Ground Guidance (SAGG) SAM ECM Operational Testing Capability, End-to-End Requirements Study (E2E), Multi-Camera Systems, Threat IR Imagery Commutative Multiplex and Test Events Model Analysis) adequacy for T&E
 - Update the Automated Threat Systems Handbook to maintain inventory of threat representative assets available for the T&E community
 - Provide threat assessment for DOT&E planning and evaluation
 - Provide oversight of Service activities in support of the DoD validation program for Service threat simulators and threat digital models
 - Execute the DoD validation program for threat simulators and threat digital models
 - Targets
 - Provide oversight of the Service activities in support of the DoD validation program for Service threat representative targets
 - Provide OSD seed funds to prototype solution to highest priority deficiencies in current target systems (e.g., Low Earth Orbit Satellite Target Control System Test Report, Underwater NBC Sensor Scoring System, ECM Miniaturization, Air Superiority Target Design Effort and UAV Threat Test Report)

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- Support the implementation of new target modeling and simulation capabilities/tools that meet multi-Service T&E needs within common/DoD standard architectures (e.g., Subscale IR Countermeasures, Torpedo Threat Emulation Target, Subscale IR Signature Augmentation, Advanced Threat Receiver, Airborne Electronically Steered Antenna (AESA), IR Signature Validation Study, Subscale IR Hardbody Coating, BQM-167A CDA Implementation, Matrix Round Locator, and Advanced Offboard Countermeasures)
- Continue oversight of Service threat representative targets
- Center for Countermeasures:
 - CCM will test, analyze, report, assess and/or otherwise support over 30 US and foreign PGW systems/components, countermeasures, and threat-warning systems and other activities and programs, as listed below:
 - Air Force:
 - JPALS, AATC Comet, ASTE, Small Diameter Bomb, CV-22, BLADES, LITENING II Pod, and the KC-130J
 - Army:
 - Future Combat Systems, Tactical UAV, Comanche Defensive Suite, XM-982 Excalibur, Joint Common Missile, Longbow Hellfire, Longbow Apache, and Precision Guided Mortar Munition (PGMM)
 - Navy/Marines:
 - VTUAV, ATFLIR, SHIELDS/IEWS, TADIRCM, Kinematic Flare development, Advanced Amphibious Assault Vehicle, AN/AAR-47 Upgrade Missile/Laser Warning, MV-22, JSOW, SBLAS, and Starlight
 - Foreign:
 - Foreign Hand-Held Thermal Sight, and Foreign Laser Adjunct Program B series, FAPS-II, NAVE-G, FREE-G, FGPS, and GD-1 grenade
 - M&S:
 - MV and CV-22, Incorporated IR flare and IR threat missiles and M&S support of several countermeasures field tests
 - Other:
 - Continue TTCP (Trials KANTO and Blackbear), NATO Trial EMBOW
 - Continue providing technical and analytical expertise in support of DOT&E assessment tasks
 - Provide CM inputs for evolving programs, identified by the Service Acquisition PEOs/PMs
 - Air Transport Measurements
 - CM Warfare Initiative:
 - Coordinate CM Warfare support at the Combatant Command and MAJCOM levels
 - Plan for participation in operational warfighting exercises and simulations (NTC, JRTC Rotations,), Desert Talon-1, and JTFEX 2004

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- Continue to provide inputs to Joint Interoperability Tasks and operational exercises and simulations
- Continue development of software modifications to warfighting models and simulations to reflect EO/IR countermeasures scenarios at the Joint and Component Service level (JCATS, JSIMS, and CASTFOREM)
- Provide DARPA test, analysis, and assessment support
- JTCG/ME:
 - Conduct Configuration Management/VV&A efforts on specific JTCG/ME models (i.e., JSEM, AJEM, MEVA, MUVES, and ASAP)
 - Continue Combatant Commander data calls in support of FY 2005 program build requirements
 - Continue conversion/updates of existing JMEMs to CD-ROM format for JMEM Air-to-Surface Weaponing System (JAWS) v2.4, Joint Anti-air Combat Effectiveness – Air Defense (J-ACE-AD) v2.0, Joint Anti-Air Combat Effectiveness - Air Superiority (J-ACE: AS) v3.0, JMEM/Surface-to-Surface Weaponing Effectiveness System (JWES) v3.0, and continue configuration management for Target Vulnerability Data Management System (TVDMS) v2.3)
 - Continue execution and technical coordination efforts to address Target Vulnerability data generation (e.g., Special Operations) and methodology improvements (e.g., counter proliferation, fragment penetration, ORCA extension, and target model generation)
 - Continue expansion of existing databases to incorporate data for newly fielded weapons
 - Continue the development of standardized models and methodology for Air-to-Surface, Surface-to-Surface and Anti-air effectiveness calculations (i.e., collateral damage, hardened targets, mean area of effectiveness (MAE) and dual stage warheads)
 - Continue to develop/sanitize JMEM products for foreign customers and coalition operations
 - Continue to expand pilot programs for compliance with near-term acquisition programs to support JMEM production at system IOC
 - Continue to reduce CD-ROM update cycles
 - Continue to work National Disclosure Policy issues relative to JMEM product release for foreign customers and coalition operations
 - Develop JMEM data for the most critical Combatant Commander identified systems Begin to ramp up to support the increased rate of data production that will be possible as a result of increased FY 2005 funding
 - Distribute products via the classified internet with the Joint Product and Information Access System (JPIAS) (Books-on-line, Automated products, Models, Tri-Service Data, and Support service)

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- Investigate tri-service data, methodology and evaluate standards required to assess Information Operations/Computer Network Attack (IO/CNA)
- Plan development of tri-service vulnerability/lethality methodology for the HEL program
- Reduce major methodology shortcomings
- Release AJEM v2.2 (Integration of improved FATEPEN, Supporting ASP documentation on CD, Common AJEM/MUVES GUI)
- Convene the Model Review Committee to make a recommendation of AJEM accreditation
- JASP:
 - Complete Advanced Survivable Rotorcraft Validation Project
 - Complete UAV Active Acoustic Cancellation Project
 - Complete Imaging Seeker Aim Point Project
 - Complete the MANPADS Impact Point Assessment Project
 - Complete the Bonded Wing Survivability Demonstration
 - Complete ALARM Model Maintenance and Upgrades
 - Complete the Imaging Seeker Countermeasures Susceptibility Study
 - Complete the DBFM Ignition Phase Validation Data Assessment Project
 - Complete the Advanced Survivable Rotorcraft Validation Project
 - Complete the Special Material Urban Decoy Project
 - Complete the DREAM V&V into SURVIAC Project
 - Complete the Imaging Infrared (IIR) Sensor and Laser Effects Model
 - Continue projects to advance and promote aircraft survivability within the Services
 - Continue projects to gather and maintain survivability test data and actual combat damage data
 - Continue the DBFM/WINFIRE Enhancements Project
 - Continue the IIR Sensor and Laser Effects Model Development Project
 - Continue ALARM Model Upgrades
 - Continue participation on COVART/FASTGEN CCB
 - Continue SURVIAC Model Verification and Validation and Model Accreditation
 - Continue projects to advance and promote aircraft survivability within the Services
 - Continue projects to gather and maintain survivability test data and actual combat damage data
 - Continue SURVIAC Model Manager Support
 - Continue the COVART/FASTGEN CCB Project
 - Continue Support for Air to Air Simulations
 - Continue Laser-Focal Plane Array Effects Modeling for Laser Countermeasures Optimization

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- Continue MANPADS Damage Effects Modeling
- Continue High Power Wideband Array Project
- Continue Integrated Survivability Analysis Project
- Continue the Rotary Wing (Battle Damage and Repair (BDAR) Project
- Conduct an Integrated Survivability Assessment demonstration for the Multi-Mission Aircraft
- Initiate Simulink Environment And Tools for Advanced IR Seeker Susceptibility Analysis
- Initiate and complete the Update and Pedigree Gun and Missile Books Project
- Initiate and complete the COVART modularization Project
- Initiate the Common Service Exciter Project
- Initiate the Countermeasure Susceptibility of New Foreign Threat IR Seekers Project
- Initiate the Reactive IR Suppressor Project
- Initiate the impact of electronic limiting on imaging seeker countermeasures project
- Initiate the Low Cost Helo IRCM components for advanced threats project
- Initiate the affordable visible missile warning system project
- Initiate the derivative Soviet MANPADS IRCM project
- Initiate the high resolution IRCM measurements project
- Initiate the MMW EW receiver for stand-in jammer project
- Initiate the miniaturized countermeasures for UAVs project
- Initiate the susceptibility reduction strategic planning project
- Initiate the RPG M&S Dytran/LS DYNA 3D hydrocode modeling using JLF RPG testing results project
- Initiate the joint resistance to RAM project
- Initiate the MANPADS Damage Effects on a large aircraft engine project
- Initiate the SECAD TS/HBR project
- Initiate the complex composite rotorcraft structures survivability project
- Initiate the aircraft structure/flare buckets project
- Initiate the UAV survivability enhancement techniques project
- Initiate and complete the Intumescent “Instant Firewall” project
- Initiate and complete the assessment of tank wall pressures for ERAM validation project
- Initiate and complete the follow-on issues for weapons bays project

T&E Independent Activities

- Continue analysis and oversight of the Department’s Test and Evaluation policy, resources and infrastructure, including the Major Range and Test Facility Base (MRTFB) and other key T&E centers, ranges, and capabilities:

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- Analyze the T&E infrastructure capabilities needed to support force transformation and provide data to support policy decisions regarding the composition and management of the MRTFB
- Analyze T&E financial operations and investment data and propose issues for the Annual Test and Evaluation Review Prepare a Summary Report and follow-up to ensure implementation of DOT&E solutions to issues
- Analyze test facility and range user cost practices and provide data and policy recommendations to support the Congressionally directed development of a single financial management and accounting system for T&E ranges
- Analyze T&E PPBE information for identification and resolution of potential shortfalls during FY2006-2011 POM and budget reviews
- Spectrum Support:
 - Analyze and report on alternative options for telemetry operations in higher frequency bands
 - Develop technical alternatives on issues affecting T&E infrastructure
 - Provide technical support to Range Spectrum Requirements Working Group on spectrum issues
- Telemetry Support:
 - Develop technical approach for Real Time Telemetry Network (RTTN)
 - Perform and conduct special studies on MRTFB radio spectrum issues
 - Continue to support DOT&E participation in International Consortium for Telemetry Secretary
- Special Studies (Examples):
 - Review and revise MRTFB composition and funding policy directives
 - Refine Hypersonics and Directed Energy test capabilities modernization plans
 - Develop Roadmaps to implement testing in a Joint Force environment
- DTEPI:
 - Develop and update T&E course and training materials for the DoD T&E community to include computer based and WEB based training. Following are examples of projects:
 - Develop computer based training course for the following topics:
 - Range Safety Training Course
 - T&E Overview
- Official Travel and Administrative Support:
 - Perform official travel in support of the DOT&E oversight of T&E infrastructure
 - Procure administrative support to carry out oversight of DOT&E programs
- Accounting and Financial Management Support:
 - Provide accounting and financial management support to the DOT&E

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FY 2005 Plans:

T & E Programs:

- JT&E
 - Complete JCMD, JBDA, JC2ISR, JUAV-TSO, and JMACA Tests. Conduct out briefings, distribute the final reports, and transition test products
 - Continue JLOG-PE, JDICE, and DoD Representative Committee-prioritized FY 2004 joint tests
 - Charter the one to three DoD Representative Committee-prioritized FY 2005 Joint Feasibility Studies as Joint Tests and commence testing activities
 - Conduct JT&E annual review of nominations for potential feasibility studies for conduct in FY 2006
 - Determine through DoD Representative Committee prioritization the three or four FY 2005 Feasibility Studies
- Threat Systems:
 - Simulators
 - Provide oversight of Service activities in support of the DoD validation program for Service threat simulators and threat digital models
 - Execute the DoD validation program for threat simulators and threat digital models
 - Provide threat assessment for DOT&E planning and evaluation
 - Update the Automated Threat Systems Handbook to maintain inventory of threat representative assets available for the T&E community
 - Implement common threat missile fly-out models used for test and evaluation
 - Conduct technical investigations and identify improvements to threat representations to ensure threat adequacy for multi-spectral sensor fusion T&E environments
 - Continue improvements to threat missile representations used in end-to-end testing of missile warning and countermeasures effectiveness
 - Continue oversight of Service threat simulators and threat digital models
 - Continue technical investigations to identify solutions for effectively representing asymmetric threats to include Chemical, Biological, Radiological, and Nuclear (CBRN); Information Warfare (IW); and terrorism-related threats to Homeland Defense in testing of U.S. weapons systems
 - Continue threat support to T&E through investigations of current scientific and technical intelligence information for insertion in Service threat representation modeling programs (e.g., IR Air-to-Air Missile Engineering Analysis, Hybrid Simulator and Threat 3D Assessment Tool)
 - Continue the cooperative technical research and test bed projects to ensure threat representation adequacy in T&E

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- Continue to provide the tools to exchange the latest scientific and technological information between T&E and intelligence communities (e.g., IR SAM MATLAB/Simulink)
- Targets
 - Provide oversight of the Service activities in support of the DoD validation program for Service threat representative targets
 - Provide OSD seed funds to prototype solution to highest priority deficiencies in current target systems (e.g., Underwater Tracking System, Subscale Target Electronic Countermeasures (ECM) / Infrared (IR) Threat Realism, and Electronic Control Countermeasures (ECM) Miniaturization)
 - Support the implementation of new target modeling and simulation capabilities/tools that meet multi-Service T&E needs within common/DoD standard architectures (e.g., Subscale IR Countermeasures, and Advanced Off-Board Countermeasures)
 - Continue oversight of Service threat representative targets
- Center for Countermeasures:
 - CCM will test, analyze, report, and otherwise support over 30 US and foreign PGW systems/components in a countermeasure environment, as well as CM and threat-warning systems and other activities and programs, as listed below:
 - Air Force:
 - F-22 Raptor, JASSM, HH-60G SPS, AATC Comet, ASTE, A-10/F-16 FDE, Small Diameter Bomb, CV-22, LITENING-II Pod, and Powered-Low Cost Autonomous Acquisition System (P-LOCAAS)
 - Army:
 - Comanche, Future Combat Systems, Tactical UAV, Wide Area Munition, Comanche Defensive Suite, Excalibur XM-982, Joint Common Missile, FCS, Longbow Hellfire, Longbow Apache, and AN/AVR-2B
 - Navy/Marines:
 - VTUAV, ATFLIR, SHIELDS/IEWS, ERGM, TADIRCM, Kinematic Flare development, Advanced Amphibious Assault Vehicle, Advanced Land Attack Missile, AN/AAR-47 Upgrade Missile/Laser Warning, Starlight, SBLAS, and MV-22
 - Foreign:
 - WHEAT SPEAR, Foreign Hand-Held Thermal Sight, FAPS-II, FLBR Live-Fire, FGPS Munition B series, Foreign False Target Generator, Foreign Laser Guided Projectile, and FGPS
 - M&S:
 - MV and CV-22
 - Incorporate IR flare and IR threat missiles

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- Other:
 - TTCP
 - Air Transport Measurements continuing measurement and assessment
 - Provide CM inputs for evolving programs, identified by the Service Acquisition PEOs/PMs
 - CM Warfare Initiative:
 - Coordinate CM Warfare support at the Combatant Command and MAJCOM levels
 - Plan for participation in operational warfighting exercises and simulations
 - Continue to provide inputs for EO/IR CM training and equipment and Joint Interoperability
 - Continue to develop software modifications to Joint and Component Service level simulations (JCATS, JSIMS, and CASTFOREM)
 - Continue to provide technical and analytical expertise to DOT&E assessment tasks
- JTCG/ME:
 - Release AJEM v2.x
 - Develop JMEM data for most critical Combatant Commander identified systems. Continue updates of existing JMEMs CD-ROMs (i.e., JMEM Air-to-Surface Weaponing System (JAWS) v3.x, Joint Anti-air Combat Effectiveness – Air Defense (J-ACE-AD) v3.x, Joint Anti-Air Combat Effectiveness - Air Superiority (J-ACE: AS) v4.0, JMEM/Surface-to-Surface Weaponing Effectiveness System (JWES) v4.0, and Target Vulnerability Data Management System (TVDMS) v3.0). Continue to reduce CD-ROM update cycles through incremental updates. Continue transition to a Target Oriented JMEM
 - Develop tri-service vulnerability/lethality methodology for the IO/CNA program
 - Develop tri-service vulnerability/lethality methodology for the Directed Energy Weapons (DEW) program
 - Distribute products via the classified internet with the Joint Product and Information Access System (JPIAS) (Books-online, Automated products, Models, Tri-Service Data, and Support service)
 - Conduct Configuration Management/VV&A efforts on specific JTCG/ME models
 - Continue the development of standardized models and methodology for Air-to-Surface, Surface-to-Surface and Anti-Air effectiveness calculations
 - Continue expansion of existing databases to incorporate data for newly fielded weapons (i.e., Air-to-Surface, Surface-to-Surface Direct/Indirect Fire and Anti-Air)
 - Continue execution and technical coordination efforts to address Target Vulnerability data generation and methodology improvements)
 - Continue Combatant Commander data calls in support of FY 2006 program build requirements
 - Continue to engage near-term acquisition programs to support JMEM production at system IOC (i.e., bring critical developmental systems into the JMEM process)

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- Continue to work National Disclosure Policy issues relative to JMEM product release for foreign customers and coalition operations

With the additional DoD funding plus up the following projects will be initiated to address critical COCOM and Service requirements:

- Develop the target geometry model (TGM), generate vulnerability data, and produce JMEM data for approximately 50 high-priority Combatant Command targets (e.g., surface mobile/fixed, air, hard/deeply buried and ship targets) producing approximately 3000 weapon-target pairings
- Enhance collateral damage and hardened target methodologies (Fast Assessment Strike Tool-Collateral Damage (FAST-CD) and Integrated Munitions Effectiveness Assessment (IMEA))
- Accelerate the move to a capabilities based JMEM, accounting for newly fielded systems employing other than traditional kinetic damage mechanisms
- Advance efforts to provide connectivity to real time planning systems assessing time sensitive targets

JASP:

- Complete Laser-Focal Plane Array (FPA) Effects Modeling for Laser Countermeasures Optimization
- Complete High Power Wideband Array Project
- Complete Integrated Survivability Analysis Project
- Continue projects to advance and promote aircraft survivability within the Services
- Continue projects to gather and maintain survivability test data and actual combat damage data
- Continue SURVIAC Model Verification and Validation and Model Accreditation
- Continue SURVIAC Model Manager Support
- Continue ALARM Model Maintenance
- Continue the Common Service Exciter Project
- Continue the Countermeasure Susceptibility of New Foreign Threat IR Seekers Project
- Continue the Reactive IR Suppressor Project
- Continue the impact of electronic limiting on imaging seeker countermeasures project
- Continue the Low Cost Helo IRCM components for advanced threats project
- Continue the affordable visible missile warning system project
- Continue and complete the derivative Soviet MANPADS IRCM project
- Continue the high resolution IRCM measurements project
- Continue the MMW EW receiver for stand-in jammer project
- Continue and complete the miniaturized countermeasures for UAVs project
- Continue the susceptibility reduction strategic planning project
- Continue the RPG M&S Dytran/LS DYNA 3D hydrocode modeling using JLF RPG testing results project

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- Continue and complete the joint resistance to RAM project
- Continue the MANPADS Damage Effects on a large aircraft engine project
- Continue the SECAD TS/HBR project
- Continue and complete the complex composite rotorcraft structures survivability project
- Continue and complete the aircraft structure/flare buckets project
- Continue the UAV survivability enhancement techniques project
- Continue Simulink Env. And Tools for Advanced IR Seeker Susceptibility Analysis
- Continue Air to Air CCB for ASPEM and BRAWLER
- Continue MANPADS Damage Effects Modeling
- Initiate projects to counter advanced threats
- Initiate projects to develop survivability enhancements in fire & explosion protection
- Initiate projects to develop survivability enhancements in flight systems
- Initiate projects to develop survivability enhancements in platform & crew protection
- Initiate projects to develop survivability enhancements in propulsion systems
- Initiate projects to develop survivability enhancements in structural design
- Initiate projects to improve survivability analysis and design tools for Model management
- Initiate projects to improve survivability analysis and design tools for M&S credibility
- Initiate projects to reduce the MANPADS threat to aircraft

T&E Independent Activities

- Continue analysis and oversight of the Department's Test and Evaluation policy, resources and infrastructure, including the Major Range and Test Facility Base (MRTFB) and other key T&E centers, ranges, and capabilities:
 - Monitor and evaluate the T&E infrastructure and resources to ensure adequacy to provide capabilities associated with Test transformation to provide testing in a joint force environment
 - Develop and issue a summary and database of test and evaluation capabilities in coordination with the Military Departments for use in assessing future capability requirements
 - Analyze T&E institutional and customer data in support of policy decisions regarding the composition and management of the MRTFBs
 - Analyze T&E financial and manpower data and propose issues for the Annual T&E Review. Prepare a Summary Report and follow-up to ensure implementation of DOT&E solutions to issues
 - Analyze T&E PPBE information for identification and resolution of potential shortfalls during FY2007-11 combined (off-year) program/budget review
- Spectrum Support:
 - Analyze and report on alternative options for telemetry operations in higher frequency bands

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- Develop technical alternatives on issues affecting T&E infrastructure
- Provide technical support to Range Spectrum Requirements Working Group on spectrum issues
- Telemetry Support:
 - Continue to support DOT&E participation in International Consortium for Telemetry Secretary
 - Develop technical approach for Real Time Telemetry Network (RTTN)
 - Perform and conduct special studies on MRTFB radio spectrum issues
- Special Studies (Examples):
 - Develop process for and initiate T&E infrastructure modernization planning with industry
 - Conduct T&E shortfalls survey to support revision of the 15 to 20 year modernization plan
 - Develop integrated test and training range plan and develop methodologies to better integrate testing in the training process
- DTEPI:
 - Develop and update T&E course and training materials for the DoD T&E community to include computer based and WEB based training. Following are examples of projects:
 - Develop computer based training course for the following topics:
 - A Guide to Targets and their Capabilities
- Official Travel and Administrative Support:
 - Perform official travel in support of the DOT&E oversight of T&E infrastructure
 - Procure administrative support to carry out oversight of DOT&E programs
- Accounting and Financial Management Support:
 - Provide accounting and financial management support to the DOT&E

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(U) PROGRAM CHANGE SUMMARY

| (\$ in Millions) | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> |
|---|----------------------|----------------------|----------------------|
| FY 2004 President's Budget | 64.140 | 103.245 ¹ | 104.679 ¹ |
| Current Budget Submit | 63.426 | 104.381 | 112.679 |
| Total Adjustments | (0.714) | 1.136 | 8.000 |
| Congressional Program Reductions | | (1.364) | |
| Congressional Rescissions | | | |
| Congressional Increases | | 2.500 | |
| GYPSY DELTA Program Transfer ² | | 2.500 | |
| Reprogramming | (0.714) ³ | | |
| Program Adjustment | | | 8.000 |

Notes:

- 1. Reflects the transfer of the JT&E program from USD(AT&L) Appropriation 0400 to DOT&E and Appropriation 0460**
- 2. Reflects the Congressionally mandated transfer of the GYPSY DELTA program from USD(AT&L) Appropriation 0400 to DOT&E and Appropriation 0460**
- 3. Reprogramming from PE 0605804D to PE 0605118D**

C. (U) OTHER PROGRAM FUNDING SUMMARY: NA