

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2)							February 1999			
DIRECTOR TEST AND EVALUATION, DEFENSE (0450) BUDGET ACTIVITY SIX			TEST AND EVALUATION (T&E) PE 0605804D							
\$'s in Thousands	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	COST TO COMPLETE	TOTAL COST
PE 0605804D	99,005	94,253	99,840	99,633	99,723	103,193	105,358	107,537	Cont'g	Cont'g

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

The program element supports the activities of the Director, Test, Systems Engineering, and Evaluation, Office of the Under Secretary of Defense for Acquisition and Technology (OUSD (A&T)), to manage the DoD test and evaluation process. Unique programs within this PE include Joint Test and Evaluation (JT&E) and the T&E Programs: Threat Systems (TS), Precision Guided Weapons Countermeasures (PGWCM), and the Joint Technical Coordinating Groups on Aircraft Survivability (JTTCG/AS) and Munitions Effectiveness (JTTCG/ME)).

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, improved performance of systems, validate testing methodologies, and provide data for validating models, simulations and test beds. JT&E programs solve relevant warfighter issues in a joint T&E environment.

The T&E programs are continuing efforts that provide management and oversight of DoD T&E functions and T&E expertise to the DoD. TS provides OSD policy and oversight to Service Threat Simulator developments to ensure increased commonality, minimize duplications and provide consistent validation. TS funds the management and oversight functions for development of threat specifications and threat simulators, threat representative targets used for T&E, integration of T&E requirements for Foreign Material Acquisition (FMA), and DoD validation of threat simulators, and digital threat models. PGWCM, a DoD Joint Service T&E Directorate, conducts analysis and T&E of Electro-Optical (EO), Infrared (IR), Radar, and Millimeterwave (MMW) weapons, countermeasures (CM) equipment and warning devices for the Services, T&E Agencies, and the Intelligence Community. The JTTCG/AS supports joint research development test and evaluation programs to enhance the combat

survivability of aircraft. This tri-Service organization serves as the DoD focal point for aircraft survivability and represents the Joint Logistics Commanders (JLC) and their Joint Aeronautical Commanders Group (JACG) in dealings with OSD, industry, and other Service agencies. Under the auspices of the Joint Logistics Commander the JTCG/ME publishes the Joint Munitions Effectiveness Manuals (JMEM) which contain weapons effectiveness estimates for all fielded non-nuclear weapons for the DoD. Weapons effectiveness data is available in both paper and electronic media (CD-ROMs, diskettes and via classified computer networks). JMEMs are used by the Armed Forces of the United States, NATO and other allies to develop weapons requirements, plan operational missions, support training and tactics development, and support force-level analyses. The JTCG/ME also develops and standardizes methodologies for evaluation of munitions effectiveness and maintains databases for target vulnerability, munitions lethality and weapon system accuracy. JTCG/AS and JTCG/ME jointly sponsor the Survivability/Vulnerability Information Analysis Center (SURVIAC).

This PE also funds T&E Independent Activities to include independent analyses, specific and generic, of weapons systems tests and evaluation process improvements.

The Defense Evaluation Support Activity (DESA), a DoD T&E Activity, has provided T&E expertise to the Services, Defense Agencies, and other Departments and Agencies with DoD interests since 1990. In April 1997, the DEPSECDEF directed disestablishment of DESA and the transfer of the majority of its mission and function to the U.S. Air Force effective 30 September 1997. As part of the transition, OSD and the Air Force agreed that DTE, D would fund the Air Force Operational Test and Evaluation Command for the transition through FY 1999. However, in FY 2000, the DTSE&E must fund buyouts for civilian personnel so that the Air Force is brought back within their Quadrennial Defense Review (QDR) civilian personnel ceiling. The institutional funding for DESA was removed from the DTSE&E budget over the FYDP as part of the Defense-Wide activity reductions of the QDR.

This Research Category 6.5 PE supports joint military testing of the Department's weapons systems to determine if they meet their detailed performance requirements for the Joint Staff and the Services and management of the DoD test and evaluation process.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

FY 1998 Accomplishments:

JT&E Programs

- Chartered the FY1997 Feasibility Studies, JTD and JSHIP, and commence testing.
- Conducted JT&E annual nomination review.
- Continued JADS, JADS-EW, JTMD, JCSAR, JECSIM, JSEAD, JNCAS and JWF.

- Directed the FY 1998 new nominations, Global Positioning System in a Joint Operational Battlespace Environment (GPS-JOBE), Joint Cruise Missile Defense (JCMD), and Joint Missile Alert Broadcast System (JMABS).
- JNCAS will assess day close air support (JCAS).
- Distributed Band IV management and final reports.
- Completed Band IV outbriefs.

T&E Programs

- PGWCM conducted 25 tests of US (ACAT I-IV, ATD, and ACTD) and foreign guided weapons systems including countermeasures (CM) systems, and air, sea, and land threat warning devices in a countermeasure environment. US weapon systems tested included BAT, SFW, and PGMM. Foreign systems tested included a laser beamrider and a laser guided bomb. Threat warning and CM systems tested included the AN/AAR-47, AAR-44, AAR-54, HARLID, BERD, CMWS, Advanced Owl, a Universal Semi-active Laser Jammer, and a variety of airborne flares. Furthermore, OTD has produced a total of 47 reports, including susceptibility analyses and special reports/white papers, such as the Precision Guided Mortar Munition Susceptibility Analysis Report, Drozd Radar Analysis Report, Band IV Simulations Report, SHTORA-1 Susceptibility Analysis, and the Semi-active Laser Seeker Comparative Analysis. Also initiated was the centralization of modeling and simulation efforts into one program office.
- Priority projects and efforts initiated by DESA in prior years and transferred to the Air Force will continue. These include non-traditional T&E support to the JCS, numerous Defense and non-Defense government agencies, National Level Programs, and the Services. Greatest preponderance of effort will be centered on T&E support to DoD ACTDs and providing T&E expertise to existing and emerging Service Battle Labs.
- Threat Systems:
 - Simulators
 - Continued threat support to T&E by investigations of current scientific and technical developments for use in Service threat representation programs (e.g. joint process for correlation of electronic combat test results, modeling of phased array antenna systems, and ground clutter database for simulations).
 - Continued cooperative technical research and test bed projects to facilitate threat representation (e.g., design representative beam steering units, reprogrammable digital receiver design for analog technology, SAM software rehosting, IR missile warning simulator study and generic threat helicopter model).
 - Developed a Defensive Avionics System Test Simulator based on previous work involving IR guided missile warning systems.
 - Executed the DoD validation program for threat simulators and threat digital models.
 - Continued management and oversight over Service threat simulators and threat digital models.
 - Updated the Threat Systems Handbook database to maintain inventory of threat representative assets available for T&E.

- Completed a technical workshop to define and prioritize hybrid threat systems and determine their impact on T&E.
- Completed design and proof of concept demonstration of one multispectral system.

Targets

- Initiated cooperative technical research to address shortfalls identified within the target validation program.
- Continued management and oversight over Service threat representative targets.
- Provided the framework to provide the roadmaps to capture requirements data, facilitate the development of a strategy, and depict the target vision of the future.
- Formalized the structure and activities of the DoD validation effort for Service threat representative targets.
- Provided OSD seed funds to prototype solution to highest priority deficiencies in current target systems.
- Continued to develop new target modeling and simulation capabilities/tools that meet multi-Service T&E needs within common/DoD standard architecture.
- Executed initiatives to provide the basis to resolve shortfalls in common digital architecture, enhanced target recovery, and baseline vector scoring.

JTCG/AS

- Initiated the CM development for next generation threat seekers.
- Initiated improved, lightweight transparent cockpit armor development and ullage protection systems maturation study.
- Developed IRCM techniques using advanced decoys and laser IRCM
- Developed an integrated modeling environment for assessing one-on-one air weapon systems survivability.
- Continued the survivability evaluation of electric aircraft components and systems.
- Designed and demonstrated the coherent high power electronic attack pod.
- Completed the development of cooperative CM techniques.
- Completed the next generation Halon replacement evaluations for fuel system applications.
- Completed the engine control and decoupled fuel cell vulnerability reduction efforts.
- Together with JTCG/ME, completed development and validation and verification of crew casualty model ORCA.
- Completed imaging and missile CM developments

JTCG/ME

- Initiated product distribution via the classified internet with the Special Operations Target Vulnerability and Weaponing Manual increments 1-5, and the Joint Product and Information Access System (JPIAS).

- Continued the expansion of existing databases to incorporate data for newly fielded weapons (i.e., Air-to-Surface Basic Manual changes 14, and Surface-to-Surface Direct and Indirect Fire).
- Continued the execution and technical coordination efforts to address Target Vulnerability methodology improvements (i.e., bridge, industrial components, effectiveness indices scaling, and rock penetration).
- Developed standardized models and methodology for Air-to-Surface, Surface-to-Surface and Antiair effectiveness calculations (i.e., Joint Antiair Model (JAAM) v1.0, delivery accuracy, building analysis, collateral damage, smart munitions, personnel casualty assessment, and search/target acquisition).
- Conducted VV&A efforts on specific JTCG/ME models (i.e., COVART/FASTGEN, FATEPEN, MEVA, Air Target Geometries, and GENESIS BAT)
- Together with JTCG/AS, released Advanced Joint Effectiveness Model (AJEM) beta version, to be followed by v1.0 (with features including FATEPEN 3.0 and External Dynamic Blast), and Joint Component Vulnerability Archive beta version.
- Completed conversion/updates of existing JMEMs to CD-ROM format (i.e., JMEM Air-to-Surface Weaponing Systems (JAWS) v1.2, Joint Antiair Combat Effectiveness - Air Superiority (JACE-AS) v1.0, World Artillery and Mortar Systems (WAMS) v1.0, World Infantry and Tank Systems beta version, and Target Vulnerability Manual v2.0 on JAWS);

T&E Independent Activities includes funding for independent analyses and T&E oversight of the more than 220 major weapon acquisition programs; the Command, Control, Communication and Intelligence (C3I); the Major Automated Systems Programs; the JT&E Program; and travel for ODTSE&E.

FY 1999 Plans:

JT&E Programs

- Determine if the FY 1998 Feasibility Studies, GPS-JOBE, JCMD, and JMABS are necessary and feasible for chartering as JT&Es.
- Conduct JT&E annual nomination review.
- Continue JADS-EW, JECSIM, JCAS, JWF, JTD and JSHIP.
- Complete JADS, JTMD, JCSAR, JSEAD and conduct outbriefings, distribute final reports and transition legacy products.

T&E Programs

- PGWCM will conduct 20 -25 tests, including a variety of laser and missile warning systems, and countermeasures systems (DIRCM, CMWS, EWAT/ATAS, Pronghorn); several US weapon systems (MV-22, SLAM-ER, SFW P3I, P-LOCAAS); and foreign systems (Drozdz and other foreign active protection systems, a foreign night sight, and a foreign air defense missile system). Modeling and simulation

efforts will include model-test-model analyses using CASTFOREM to address the performance of defensive aide suites (DAS) on combat vehicles. Applications of the STEP process will include MV-22, foreign laser beamride, and AN/AAR-47 support using various models (e.g. DISAMS, RCVD and TEAM).

- Priority projects and efforts initiated by DESA in prior years and transferred to the Air Force will continue. These include non-traditional T&E support to the JCS, numerous Defense and non-Defense government agencies, National Level Programs, and the Services. Greatest preponderance of effort will be centered around T&E support to DoD ACTDs and providing T&E expertise to existing and emerging Service Battle Labs.

- Threat Systems:

Simulators

- Execute the DoD validation program for threat simulators and threat digital models.
- Continue management and oversight over Service threat simulators and threat digital models.
- Continue threat support to T&E by investigations of current scientific and technical developments for use in Service threat representation programs (e.g., threat signal technology services, IR Missile Miss Distance Correlation, and Mission Level Modeling).
- Continue cooperative technical research and test bed projects to facilitate threat representation (e.g., Correlation of EC Test Data and Methodology Demonstration, and Threat Simulators in Support of Information Operations).
- Update the Threat Systems Handbook database to maintain inventory of threat representative assets available for T&E.

Targets

- Continue management and oversight over Service threat representative targets.
- Maintain the framework to update the roadmaps that capture requirements data, facilitate the development of a strategy, and depict the target vision of the future.
- Provide OSD seed funds to prototype solutions to highest priority deficiencies in current target systems.
- Support the development of new target modeling and simulation capabilities/tools that meet multi-Service T&E needs within common/DoD standard architecture.
- Provide oversight of the Service activities in support of the DoD validation program for Service threat representative targets.
- Continue cooperative technical research to address shortfalls identified within the target validation program.

- JTCCG/AS

- Initiate vectored thrust nozzle and thermal energy management technology vulnerability reduction efforts.
- Initiate dry bay fire and explosion suppression analysis techniques.
- Initiate MW and CM technique to identify and counter next generation SAM and A-A missile threats.
- Complete advanced IR signature programming and initiate composite laser vulnerability.

- Complete laser beamrider CM development and coherent high power electronic attack pod development.
- Along with JTCG/ME, complete development of component vulnerability archive incorporating methodologies, analyses and test data due to a damage mechanism.
- Complete qualification of survivability improvements of a more electric aircraft over a typical hydraulic system.
- Complete engine control and weapons bay vulnerability reductions tasks.
- JTCG/ME
 - Continue conversion/updates of existing JMEMs to CD-ROM format (i.e., JMEM Air-to-Surface Weaponing System (JAWS) v2.0, WinJMEN v2.0, Joint Antiair Combat Effectiveness – Air Defense (JACE-AD) v1.0, World Infantry and Tanks Systems (WITS) beta version, v1.0, Target Vulnerability Manual v3.0 on JAWS, and Special Operation v2.0);
 - Distribute products via the classified internet with the Special Operations Target Vulnerability/Weaponing Manual increments 5/6, and the Joint Product and Information Access System (JPIAS) beta version;
 - Continue expansion of existing databases to incorporate data for newly fielded weapons (i.e., Air-to-Surface Basic Manual – change 15, and Surface-to-Surface Direct/Indirect Fire);
 - Continue execution and technical coordination efforts to address Target Vulnerability data generation and methodology improvements (i.e., bridge, building/contents, industrial components, and rock penetration);
 - Continue the development of standardized models and methodology for Air-to-Surface, Surface-to-Surface and Antiair effectiveness calculations (i.e., Joint Antiair Model (JAAM) v2.0, visualization tools, delivery accuracy, building analysis, collateral damage, smart munitions and search/target acquisition);
 - Conduct VV&A efforts on specific JTCG/ME models (i.e., COVART/FATEPEN, MEVA, Air Target Geometries, BEAMS, ORCA and ASAP, AJEM and JSWM);
 - Together with the JTCG/AS, release Advanced Joint Effectiveness Model (AJEM) v1.x (with features including Fire Initiation, Ullage Explosion, Composite Materials, HEI Projectile Combined Effects, and Continuous Rods).

T&E Independent Activities includes funding for independent analyses and T&E oversight of the more than 220 major weapon acquisition programs; the MRTFBs; the Command, Control, Communication and Intelligence (C3I); the Major Automated Systems Programs; the JT&E Programs; and travel for ODTSE&E.

FY 2000 Plans:

JT & E Programs

- Conduct JT&E annual nomination review.
- Determine if the FY1999 Feasibility Studies are necessary and feasible for chartering as JT&Es.

- Continue JCAS, JWF, JTD, JSHIP, GPS-JOBE, JMABS, and JCMD.
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- Complete JADS-EW and JECSIM and conduct outbriefings, distribute final reports and transition legacy products.

T & E Programs

- PGWCM will conduct 20-25 test of US and foreign PGW, as well as CM and threat warning systems (SIIRCM/CMWS, TADIRCM, JASSM, MSCM, Longbow P3I, PGMM, LOCAAS, BAT P3I, Javelin LITE II, AAR-47 Sensor Upgrade, Foreign Laser Beamrider, Foreign PGM, Follow-on Foreign Armor Protection system). Modeling and simulation efforts will include preliminary analyses using the TTCP anti-ship-missile engagement model in support of littoral warfare scenarios, as well as the initial use of the NAWC's TSPIL/DSI simulation.
- Threat Systems:
 - Simulators
 - Execute the DoD validation program for threat simulators and threat digital models.
 - Continue management and oversight over Service threat simulators and threat digital models. Continue threat support to T&E by investigations of current scientific and technical development for insertion in Service threat representation programs (engagement radar measurements, and C3 threat simulation).
 - Continue cooperative technical research and test bed projects to facilitate threat representation (target engagement radar measurements & modeling, stochastic missile modeling capability, shoulder-launched threat entity, and reengineering software).
 - Upgrade the Threat System Handbook database to maintain inventory of threat representative assets available for T&E.
 - Targets
 - Continue management and oversight over Service threat representative targets.
 - Maintain the framework to update the roadmaps that capture requirement data, facilitate the development of a strategy and depict the target vision of the future.
 - Provide OSD seed funds to prototype solutions to highest priority deficiencies in current target systems.
 - Support the development of new target modeling and simulation capabilities/tools that meet multi-Service T&E needs within common/DoD standard architecture (i.e. target electronic countermeasures, miniaturization and common digital architecture demonstrations and familiarizations).
 - Provide oversight of the Service activities in support of the DoD validation program for Service threat representative targets.
 - Continue cooperative technical research to address shortfalls identified within the target validation program.

- JTCG/AS
 - Start transition to JMASS objects.
 - Develop baseline mission level survivability analysis capability.
 - Develop baseline vulnerability analysis capability.
 - Continue development of advanced ullage and dry bay protection systems.
 - Continue research into thermal energy management techniques on aircraft.
 - Continue development of ways to reduce vulnerability of engine vectored thrust nozzles.
 - Continue development of degradable chaff, and monobit multisignal instantaneous frequency measurement for threat missiles.
 - Continue development of dual mode (RF and IR) seeker countermeasures.
 - Continue mission effectiveness modeling.
 - Continue model credibility enhancements.
 - Complete development of two color focal plane array readout for missile warning systems, integrated on-board and off-board infrared countermeasures.
 - Complete development of an automated flare database.
 - Complete fuze model development and improvements.
 - Complete research into development of capability for in-flight controls reconfiguration due to battle damage.
 - Complete work toward development of advanced transparent armor systems for aircraft windshields and rotorcraft frag barriers.
 - Complete phase development of model for Hydrodynamic Ram phenomenon and reduced vulnerability techniques for engine hot exhaust structures.
- JTCG/ME
 - Continue conversion/updates of existing JMEMS to CD-ROM format (i.e., JMEM Air-to-Surface Weaponing System (JAWS) v3.0, WinJMEM v3.0, Joint Antiair Combat Effectiveness – Air Superiority (JACE-AS) v2.0, Joint Antiair Combat Effectiveness – Ship Antiair Warfare (JACE-Ship AAW) v1.0, World Infantry and Tank Systems (WITS) v1.0, World Artillery and Mortar Systems (WAMS) v2.0, and Target Vulnerability Manual v4.0 on JAWS).
 - Distribute products via the classified internet with the Joint Product and Information Access System (JPIAS) v1.0.
 - Continue expansion of existing databases to incorporate data for newly fielded weapons (i.e., Air-to-Surface Basic Manual – change 16, and Surface-to-Surface Direct/Indirect Fire).

- Continue execution and technical coordination efforts to address Target Vulnerability data generation (e.g. Special Operations) and methodology improvements (e.g., surface mobile targets, buildings and content, rock penetration, agent release model, and combined effects).
- Continue the development of standardized models and methodology for Air-to-Surface, Surface-to-Surface and Anti-air effectiveness calculations (i.e., Joint Anti-air Model (JAAM) v2.x, delivery accuracy, building collateral damage, and search/target acquisition).
- Conduct VV&A efforts on specific JTTCG/ME models (i.e., Air Target Geometries, BEAMS, ORCA, PENCVR3D and ASAP, AJEM, and MEVA-GF),
- Together with JTTCG/AS, release Advanced Joint Effectiveness Model (AJEM) v2.0 (with features including TBM Body-to-Body, Explosive Initiation, Hydrodynamic Ram, and Blast/Frag Combined Effects), and Joint Component Vulnerability Archive v1.0.
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- DESA:
 - Fund buyouts to bring AFOTEC back within their QDR target.

T&E Independent Activities includes funding for independent analyses and T&E oversight of the more than 220 major weapon acquisition programs; the MRTFBs; the Command, Control, Communication and Intelligence (C3I); the Major Automated Systems Programs; the JT&E Programs; and travel for ODTSE&E.

FY 2001 Plans:

JT & E Programs

- Charter ongoing JFS' into JT&Es as directed by the SAC.
- Conduct JT&E annual nomination review
- Determine if the FY 2000 Feasibility Studies are necessary and feasible for chartering as JT&Es.
- Continue JCAS, JSHIP and GPS-JOBE, JMABS, and JCMD.
- Complete JWF and JTD and conduct outbriefings, distribute final reports and transition legacy products.

T & E Programs

- PGWCM will conduct 20-25 tests of US and foreign PGWCM and threat warning systems (Multi-spectral CM, F/A-18 NAS, IEWS, JASSM, P-LOCAAS, SLAM-ATA, SIIRCM/CMWS, AAV, AAR-47)). Modeling and simulation efforts will include continued analysis using the TTCP anti-ship-missile engagement model to support littoral warfare scenarios, the NAWC TSPIL/DSI simulation, and expanded use of CASTFOREM/FORCE XXI.

- Threat Systems
 - Simulators
 - Execute the DoD validation program for threat simulators and threat digital models.
 - Continue management and oversight over Service threat simulators and threat digital models.
 - Continue threat support to T&E by investigations of current scientific and technical developments for insertion in Service threat representation programs (i.e., closed loop threat simulator alternatives, lethal SEAD end-to-end OT & training, GPS Jamming Simulator Miniaturization).
 - Continue cooperative technical research and test bed projects to facilitate threat representation.
 - Update the Threat systems Handbook database to maintain inventory of threat representative as (i.e., air-to-air ground mounted missile study, integrated facility validation study, remote instructor station for intelligence threat entity, and EC receiver dynamic range for chamber testing.
 - Targets
 - Continue management and oversight over Service threat representative targets.
 - Maintain the framework to update the roadmaps that capture requirement data, facilitate the development of a strategy, and depict the target vision of the future.
 - Provide OSD seed funds to prototype solution to highest priority deficiencies in current target systems.
 - Support the development of new target modeling and simulation capabilities /tools that meet multi-Service T&E needs within common/DoD standard architectures.
 - Provide oversight of the Service activities in support of the DoD validation program for Service threat representative targets.
- JTCG/AS
 - Begin unmanned air vehicle vulnerability determination/reduction.
 - Analyze aircraft armor attachment qualification techniques and advance armor concepts.
 - Analyze improvements to advanced composite materials manufacturing techniques including thermoplastic, thermosets and bonding of joints.
 - Analyze rotorcraft reconfigurable flight control systems and integrated flight/propulsion control.
 - Conduct dry bay parameter sensitive study.
 - Continue development of countermeasure techniques for new modes of seeker technology.
 - Continue transition to JMASS objects, mission effectiveness modeling, links to cost model and model credibility enhancements.
 - Complete development of advanced ullage and dry bay protection systems.
 - Complete development of degradable chaff, and monobit multisignal instantaneous frequency measurement.

- Complete development of imaging missile IR countermeasures, dual mode (RF and IR) seeker countermeasures.
- Complete research into thermal energy management techniques on aircraft.
- Complete development of ways to reduce vulnerability of engine vectored thrust nozzles.
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- JTCG/ME
 - Continue conversion/updates of existing JMEMs to CD-ROM format (i.e., JMEM Air-to-Surface Weaponing System (JAWS) v4.0, WinJMEM v4.0, Joint Antiair Combat Effectiveness – Air Defense (JACE-AD) v2.0, JMEM/Surface-to-Surface Weaponing Effectiveness System (JWES) Beta version, World Infantry and Tank Systems (WITS) v2.0, and Target Vulnerability Manual v5.0 on JAWS).
 - Distribute products via the classified internet with the Joint Product and Information Access System (JPIAS) v2.0.
 - Continue expansion of existing databases to incorporate data for newly fielded weapons (i.e., Air-to-Surface Basic Manual – change 17, and Surface-to-Surface Direct/Indirect Fire).
 - Continue execution and technical coordination efforts to address Target Vulnerability data generation and methodology improvements.
 - Continue the development of standardized models and methodology for Air-to-Surface, Surface-to-Surface and Antiair effectiveness calculations.
 - Conduct VV&A efforts on specific JTCG/ME models.
 - Together with the JTCG/AS, release Advanced Joint Effectiveness Model (AJEM) v2.x (Generalized Body-to-Body and Internal Blast), and Joint Component Vulnerability Archive v1.x.

T&E Independent Activities includes funding for independent analyses and T&E oversight of the more than 220 major weapon acquisition programs; the MRTFBs; the Command, Control, Communication and Intelligence (C3I); the Major Automated Systems Programs; the JT&E Programs; and travel for ODTSE&E.

B. (U) PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget	94,350	96,253	101,810	101,716
Appropriated Value	99,005			
Adjustments to Appropriated Value				
Congressional Adj		(2,000)		
Purchase Inflation Adj			(1,970)	(2,083)
Current Budget Submit	99,005	94,253	99,840	99,633

C. (U) OTHER PROGRAM FUNDING SUMMARY NA

D. (U) SCHEDULE PROFILE NA