| Exhibit R-2, RDT&E Budget Item Justification | | | | | | | | February 2003 |
|---|---|---|---|---|---|---|---|---|
| DEFENSE-WIDE, RDT&E,D<br>BUDGET ACTIVITY SIX | | | | DEVELOPMENTAL TEST AND EVALUATION<br>PE 0605804D | | | | |
| Cost ($ in millions) | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 |
| Total PE Cost | 45.829 | 49.252 | 8.938 | 8.903 | 8.988 | 9.158 | 9.315 | 9.517 |

* FY2003 appropriation is under Defense-Wide, RDT&E (0400) for FY2003 and prior years. Beginning with FY2004, appropriation will be transferred to Director, Operational Test and Evaluation (0460).

**A. Mission Description and Budget Item Justification:** This Research Category 6.5 Program Element supports technical analysis and evaluation by Developmental Test & Evaluation (DT&E) of the Department's weapons systems to determine the adequacy of system test program structure and development plans, substantiation of technical performance requirements achievement, identification of weapon system cost performance trade-offs / design risks, system certification for Operational Test & Evaluation, and ensures DT&E Programs are sound, well-executed and sufficiently address system's ability to meet Warfighter's needs.

Joint Test & Evaluation (JT&E) programs are process, rather than product, focused Test and Evaluation (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.

**B. Program Change Summary:**

| | FY 2002 | FY 2003 | FY 2004 | FY 2005 |
|---|---|---|---|---|
| Previous President's Budget | 46.382 | 49.913 | 8.938 | 8.903 |
| Current FY2004 President's Budget | 45.829 | 49.252 | 8.938 | 8.903 |
| Total Adjustments | -0.553 | -0.661 | | |
| Congressional program reductions | | | | |
| Congressional rescissions | | | | |
| Congressional increases | | | | |
| Reprogrammings | -0.553 | -0.661 | | |
| SBIR / STTR Transfer | | | | |

**C. Other Program Funding Summary: N/A**

| Exhibit R-2a, RDT&E Project Justification | | | | | | | | February 2003 |
|---|---|---|---|---|---|---|---|---|
| DEFENSE-WIDE, RDT&E (400)<br>BUDGET ACTIVITY SIX | | | | DEVELOPMENTAL TEST AND EVALUATION<br>PE 0605804D | | | | |
| Cost ($ in millions) | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 |
| Developmental Test and Evaluation | 45.829 | 49.252 | 8.938 | 8.903 | 8.988 | 9.158 | 9.315 | 9.517 |

* FY2003 appropriation is under Defense-Wide, RDT&E (0400) for FY2003 and prior years. Beginning with FY2004, appropriation will be transferred to Director, Operational Test and Evaluation (0460).

**A. Mission Description and Budget Item Justification:** This Research Category 6.5 PE supports technical analysis and evaluation by Developmental Test and Evaluation (DT&E) of the Department's weapons systems to determine the adequacy of system test program structure and development plans, substantiation of technical performance requirements achievement, identification of weapon system cost performance trade-offs/design risks, system certification for Operational Test and Evaluation (OT&E), and ensures DT&E Programs are sound, well-executed and sufficiently address system's ability to meet Warfighter's needs.

Joint Test & Evaluation (JT&E) programs are process, rather than product, focused Test and Evaluation (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.

**B. Accomplishments/Planned Program:**

| | FY 2002 | FY 2003 | FY 2004 | FY 2005 |
|---|---|---|---|---|
| Accomplishment/Effort/Cost | 45.829 | 49.252 | 8.938 | 8.903 |

**(U) FY 2002 Accomplishments:**

**T&E Independent Activities:**

- Review, coordination, and approval of 42 Test and Evaluation Master Plans (TEMPs) (Draft and Service Approved).
- Review and coordination on all significant program documentation to include: 303 Defense Acquisition Executive Summaries (DAES); 42 Acquisition Decision Memoranda (ADM); and, 1419 Other Documents Reviewed.
- Analyses of programs for compliance with DT&E policies identified in the DoD 5000 acquisition policy and monitoring of on-going developmental test program activities through participation in 658 local and 258 out-of-town developmental test program fora.
- Published in-depth report on Commercial Test and Evaluation "Best Practices" study focusing on best, most reliable and efficient T&E practices used by the commercial world that could be applied to Departmental test programs and processes.
- Reduced Departmental TEMP processing time 13% over previous year.
- Conducted detailed review of the F-22 test program to assess program progress / status.
- Worked closely with the Comanche program to develop T&E strategy for the program's restructure to ensure DT&E program will confirm system readiness to enter OT&E.
- Worked with V-22 program to established a restructured program, leading to decision to restart the flight-test program.

**JT&E Program:**

- Completed Joint WarFighter (JWF) and Joint Theater Distribution (JTD) conducted outbriefings, distributed the final report, and transitioned legacy products.
- Continued Joint Close Air Support (JCAS), Joint Shipboard Helicopter Integration Process (JSHIP), Joint Global Positioning System Combat Effectiveness (JGPSCE), Joint Cruise Missile Defense (JCMD), Joint C2 Intelligence, Surveillance and Reconnaissance (JC2ISR) and Joint Battle

Damage Assessment (JBDA) testing.
- Commenced testing activities for the FY 2001 chartered Joint UAV for Time Sensitive Operations (JUAV-TSO) and Joint Methodology to Assess C4ISR Architecture (JMACA) test projects and commenced testing activities.
- Chartered the FY 2002 SAC prioritized program Joint Logistics/Planning Enhancement (JLOG/PE) based on necessity and feasibility.
- Conducted the FY 2002 JT&E annual nomination review, and directed Joint Data Link Information Combat Execution (JDICE) as a Joint Feasibility Study to be conducted in FY 2003..

**(U) FY 2003 Plans:**

**T&E Independent Activities:** Includes funding for technical analysis and evaluation of the developmental testing of the more than 220 major weapon acquisition programs. Specifically, the DT&E organization, within S&TS, is the USD(AT&L) focal point for all activities related to developmental test and evaluation as outlined in Section 133, Title 10, United States Code. T&E Independent Activities include funding for:
- Analyses of programs for compliance with DT&E policies identified in the DoD 5000 acquisition policy.
- Determining the adequacy of system test program structure and development plans and substantiation of technical performance requirements achievement, identification of weapon system cost performance trade-offs/design risks, and system certification of OT&E.
- Review, coordination, and approval of Test and Evaluation Master Plans (TEMPs).
- Monitoring of on-going Developmental Test and Evaluation program activities.
- Review and coordination on all significant program documentation.
- Recommend improvements to strengthen DT&E and provide necessary information/advice to DoD Acquisition decision-makers.
- Develop "New" corporate philosophy to improve Department-wide DT&E adequacy through test and evaluation process improvements that ensure readiness to initiate OT&E.

**JT&E Program:**
- Oversight of the JT&E programs.
- Complete JCAS and JSHIP, conduct outbriefings, distribute the final reports, and transition legacy products.
- Continue JGPSCE, JBDA, JC2ISR, JCMD JUAV-TSO, JMACA and JLOG-PE.
- Charter the SAC prioritized FY 2002 Feasibility Studies as Joint Tests and commence testing activities.
- Conduct JT&E annual review of nominations for potential feasibility studies for conduct in FY 2004.
- Determine through SAC prioritization the FY 2003 Feasibility Studies.

**(U) FY 2004 Plans:**

**T&E Independent Activities:** Includes funding for technical analysis and evaluation of the developmental testing of the more than 220 major weapon acquisition programs. Specifically, the DT&E organization, within S&TS, is the USD(AT&L) focal point for all activities related to developmental test and evaluation as outlined in Section 133, Title 10, United States Code. T&E Independent Activities include funding for:
- Analyses of programs for compliance with DT policies identified in the DoD 5000 acquisition policy.
- Determining the adequacy of system test program structure and development plans and substantiation of technical performance requirements achievement, identification of weapon system cost performance trade-offs/design risks, and system certification of OT&E.
- Review, coordination, and approval of Test and Evaluation Master Plans (TEMPs).
- Monitoring of on-going developmental test program activities.
- Review and coordination on all significant program documentation.
- Recommend improvements to strengthen DT&E and provide necessary information/advice to DoD Acquisition decision-makers.

**(U) FY 2005 Plans:**

**T&E Independent Activities:** Includes funding for technical analysis and evaluation of the developmental testing of the more than 220 major weapon acquisition programs. Specifically, the DT&E organization, within S&TS, is the USD(AT&L) focal point for all activities related to developmental test and evaluation as outlined in Section 133, Title 10, United States Code. T&E Independent Activities include funding for:

- Analyses of programs for compliance with DT policies identified in the DoD 5000 acquisition policy.
- Determining the adequacy of system test program structure and development plans and substantiation of technical performance requirements achievement, identification of weapon system cost performance trade-offs/design risks, and system certification of OT&E.
- Review, coordination, and approval of Test and Evaluation Master Plans (TEMPs).
- Monitoring of on-going developmental test program activities.
- Review and coordination on all significant program documentation.
- Recommend improvements to strengthen DT&E and provide necessary information/advice to DoD Acquisition decision-makers.

**C. Other Program Funding Summary: N/A**

**D. Acquisition Strategy. N/A***

**E. Major Performers:** List major contractors contributing to this effort through BY 2. Only list those who were primary recipients of funds (e.g., received 15% or over $10 million, whichever is less). Include name or titles, place or locations, and brief description of work performed. Include actual or projected award date (month/year):

**FY2002:** SENTEL: Support to JCAS, Eglin AFB, FL; JCMD, Eglin AFB, FL; JUAV-TSO, NAS Fallon, NV. SRC: Support to JGPSCE, Kirtland AFB, NM; JTD, Fort Lee, VA; JBDA, Suffolk, VA; JC2ISR, Hurlburt Field, FL; JMACA, Suffolk, VA.

**FY2003 to FY2005:** Due to cyclic nature of JT&E programs, cannot determine which contractors will reach the threshold in these years. Work performed included JT&E Training Program – Nomination, Feasibility Study, and Joint Test Training; Oversight of Test Execution; Preparation of Test Plans and Reports; and Technical Assistance to Test Directors.

*** Not required for Budget Activities 1, 2, 3, and 6**