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**OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)**

Date: February 2006

APPROPRIATION/ BUDGET ACTIVITY  
RDT&E/ Defense Wide BA# 6

PE NUMBER AND TITLE

**0605804D8Z - Developmental Test & Evaluation**

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	8.615	8.733	9.203	9.632	9.667	9.861	10.076
P804 Developmental Test and Evaluation	8.615	8.733	9.203	9.632	9.667	9.861	10.076

**A. Mission Description and Budget Item Justification:** Transformation calls for top down, national security strategy driven, capabilities-based, planning. DoD Instruction (DoDI) 5000.2 and CJCSI 3170.01D promulgate capabilities-based requirements and acquisition processes. This program enables collaborative efforts to achieve these goals. These efforts include: systems support to conduct warfighting capability-based analyses; assessments of joint capability area and joint integrating concepts; development and support of needed sets of system and system-related data; development and application of systems engineering methodologies and tools, creating integrated roadmaps to support acquisition investment decisions; and assessment of major defense acquisition programs (MDAPs) and major automated information systems programs in a capability area context. Activities in this project are divided into three areas: capability based analyses, roadmaps, and support tools and guidance. Capability-based analyses consists of efforts that provide systems aspects (views) to analyze technology, functionality, and integration impacts on warfighting capability; this forms the front end of systems engineering. Roadmaps are proscribed by DoDI 5000.2, paragraph 3.2.2. Initiatives in this project enable roadmap development based on systems engineering and are used to guide systems acquisition decisions and associated investment plans. Support tools and guidance initiatives in this project will develop systems engineering methods, systems data, and tools, exploiting the value of modeling and simulation and architecture to improve effectiveness of Systems Engineering, to improve assessment capability, and to field and test integrated systems of systems to achieve joint mission capabilities. 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.

<b>B. Program Change Summary</b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	8.676	8.873	9.060
Current BES/President's Budget (FY 2007)	8.615	8.733	9.203
Total Adjustments	-0.061	-0.140	0.143
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Other	-0.061	-0.140	0.143

Performance in this program is monitored using instances of the incorporation of DT&E policies, best practices, procedures, methods, and tools for the conduct of sound, well-executed developmental test programs; completion of rebaselining DAU T&E certification courses; completion of a DoD Modeling & Simulation Master Plan for Acquisition; and development of

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an Operational Test Readiness Review evaluation process.

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Performance Metrics: Not Applicable.

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<b>OSD RDT&amp;E PROJECT JUSTIFICATION (R2a Exhibit)</b>							Date: February 2006		
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 6			PE NUMBER AND TITLE <b>0605804D8Z - Developmental Test &amp; Evaluation</b>				PROJECT <b>P804</b>		
Cost (\$ in Millions)			FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
P804	Developmental Test and Evaluation		8.615	8.733	9.203	9.632	9.667	9.861	10.076
<p><b>A. Mission Description and Project Justification:</b> Transformation calls for top down, national security strategy driven, capabilities-based, planning. DoD Instruction (DoDI) 5000.2 and CJCSI 3170.01D promulgate capabilities-based requirements and acquisition processes. This program enables collaborative efforts to achieve these goals. These efforts include: systems support to conduct warfighting capability-based analyses; assessments of joint capability area and joint integrating concepts; development and support of needed sets of system and system-related data; development and application of systems engineering methodologies and tools, creating integrated roadmaps to support acquisition investment decisions; and assessment of major defense acquisition programs (MDAPs) and major automated information systems programs in a capability area context. Activities in this project are divided into three areas: capability based analyses, roadmaps, and support tools and guidance. Capability-based analyses consists of efforts that provide systems aspects (views) to analyze technology, functionality, and integration impacts on warfighting capability; this forms the front end of systems engineering. Roadmaps are proscribed by DoDI 5000.2, paragraph 3.2.2. Initiatives in this project enable roadmap development based on systems engineering and are used to guide systems acquisition decisions and associated investment plans. Support tools and guidance initiatives in this project will develop systems engineering methods, systems data, and tools, exploiting the value of modeling and simulation and architecture to improve effectiveness of Systems Engineering, to improve assessment capability, and to field and test integrated systems of systems to achieve joint mission capabilities. This Research Category 6.5 PE supports technical analysis and evaluation by Developmental Test and Evaluation (DT&amp;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&amp;E), and ensures DT&amp;E Programs are sound, well-executed and sufficiently address system's ability to meet Warfighter's needs.</p>									
<b>B. Accomplishments/Planned Program:</b>									
<b>Accomplishment/Planned Program Title</b>							FY 2005	FY 2006	FY 2007
T&E Independent Activities:							8.615	8.733	9.203
<p>FY 2005 Accomplishments: Review, coordination, and approval of 21 Test and Evaluation Master Plans (TEMPs) (Draft and Service Approved).</p> <p>Review and coordination on all significant program documentation to include: Defense Acquisition Executive Summaries (DAES); Acquisition Decision Memoranda (ADM); and, other documents.</p> <ul style="list-style-type: none"> <li>- Actively supporting 3 ongoing Mission Capability Roadmap activities (Integrated Air &amp; Missile Defense (IAMD), Non-Lethal Weapons, and Joint Battle Management Command &amp; Control (JBMC2). Provided T&amp;E expertise and advice to them on how to structure their T&amp;E approach.</li> <li>- Working with ASD(NII), USD(I), and DOT&amp;E, DT&amp;E led AT&amp;L's effort to implement an Information Operations initiative for Computer Network Attack in response to the FY 2004 Defense Planning Guidance. This will provide DoD with a significant IOT&amp;E capability that includes an IO "test range" to assess IO technologies and tactics in a realistic threat environment.</li> <li>- Provided recommendations to clarify and strengthen DT&amp;E policy and practices in the Defense Acquisition Guidebook and DoDI 5000.2 that will assist CAEs, PEOs, and PMs to better plan for and conduct DT&amp;E and prepare for successful OT&amp;E. Initiated specific policy recommendations in DoDI 5000.2 to implement Modeling &amp; Simulation planning as part of the systems engineering and test processes.</li> </ul>									

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<ul style="list-style-type: none"> <li>- Reconstituted and expanded the T&amp;E Functional Integrated Process Team (FIPT) to address the T&amp;E skills and training needs of the T&amp;E workforce.. Initiated cross-Service and DoD Agency work group that is conducting a complete update of the DAU T&amp;E curriculum to ensure completeness and currency of T&amp;E and associated skills necessary for today's T&amp;E workforce.</li> <li>- Worked closely with the Defense Test Resource Management Center (DTRMC) during preparation of the FY 2006 T&amp;E Budget Certification and CY 2005 Strategic Plan. Ensured proposed budgets were adequate and provided balanced support for the Department.</li> <li>- Identified issues with Services' aerial target capabilities and availability, resulting in USD(AT&amp;L) direction to Air Force and Navy to develop plans to reduce shortfalls in these critical test assets.</li> <li>- Led effort to identify actions necessary to move Joint Distributed Engineering Plant program forward. Enhanced likelihood that key capability needed to support Department joint mission capability will be accomplished. Co-sponsoring with ASD(NII) a one-year Decision Support Center study Joint Distributed Systems Engineering, and Test and Evaluation Strategy (JDSETES). Study will explore options and make recommendations in concert with the Services, Joint Staff and the OSD staff on a path forward to provide this urgent needed capability to support joint systems of systems testing in a net centric environment.</li> <li>- Initiated and orchestrated the approval of the USD(AT&amp;L) "Defense Acquisition System Safety Memorandum," which provides guidance to PMs on how to increase the emphasis on system safety within the acquisition process.</li> <li>- Formally chartered Acquisition M&amp;S Working Group (AMSWG). The AMSWG reviewed the past decade of studies addressing M&amp;S use in acquisition; considered lessons learned from various acquisition systems and system-of-systems.</li> <li>- Provided guidance and direction to the Threat-D Supersonic, Sea-skimming Target IPT to assure the target is threat representative and available for weapon system T&amp;E requirements.</li> <li>- As a member of the Joint Test &amp; Evaluation (JT&amp;E) Technical Advisory Board, reviewed and provided guidance to two Joint Feasibility Studies, Joint Fires Coordination Measures (JFCM) and Joint Urban Fire and Effects.</li> </ul> <p>FY 2006/2007 Plans: Includes funding for technical analysis and evaluation of the developmental testing of the more than 220 major weapon acquisition programs. Specifically, the DT&amp;E organization, within Defense Systems, is the USD(AT&amp;L) focal point for all activities related to developmental test and evaluation as outlined in Section 133, Title 10, United States Code.</p> <ul style="list-style-type: none"> <li>- Provide for a professional T&amp;E workforce by re-baselining Defense Acquisition University T&amp;E certification courses and updating DAU TST 301 course. Lead T&amp;E FIPT.</li> <li>- Participate in M&amp;S/Executive Council in Modeling and Simulation (EXCIMS)/Working Groups. Review DoD M&amp;S Master Plan for Acquisition.</li> <li>- Develop Operational Test Readiness Review (OTRR)evaluation Process.</li> </ul> <p>Improve and expand industry and professional association (ITEA/NDIA) interfaces.</p> <ul style="list-style-type: none"> <li>- Address Congressional, GAO, IG Actions regarding general T&amp;E/policy issues.</li> <li>- As USD(AT&amp;L) representative to the DOT&amp;E-led IPT to develop Joint Test Transformation Roadmaps, assure DT&amp;E infrastructure and capabilities support joint mission capability testing were included in</li> </ul>		

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<p>Strategic Planning Guidance action on what changes the DoD needs to make.</p> <ul style="list-style-type: none"> <li>- Ensure Joint Test and Evaluation test programs are adequate, feasible, executable, and designed to accomplish chartered goals.</li> <li>- Serve as interface to DTRMC, participate on Strategic Planning Working Group by conducting range and resource investment planning, participate in Range Commander's Council, and Defense Test and Training Steering Group. Make recommendations on range improvement and modernization requirements and funding.</li> <li>- Develop effective DT&amp;E policies, best practices, procedures, methods, and tools. Ensure DT&amp;E policy is adequate for directing the conduct of sound, well-executed developmental test programs.</li> <li>- Evaluate target requirements, status, shortfalls, and impact on weapon system testing adequacy. Oversee plans to reduce shortfalls in these critical test assets and assure these critical assets, necessary for adequate testing, are available.</li> <li>- Participate in Systems Mission and Integration (SMI) Executive Working Group.</li> </ul> <p><b>C. Other Program Funding Summary:</b> Not Applicable.</p> <p><b>D. Acquisition Strategy:</b> Not Applicable.</p> <p><b>E. Major Performers</b> Not Applicable.</p>		

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