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

**February 2008**

| APPROPRIATION/ BUDGET ACTIVITY | PE NUMBER AND TITLE |
|---|---|
| **RDTE, Defense Wide BA 06** | **0605798D8Z - Defense Technology Analysis** |

| | COST ($ in Millions) | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate |
|---|---|---|---|---|---|---|---|---|
| | Total Program Element (PE) Cost | | 13.608 | 11.040 | 11.215 | 11.432 | 11.589 | 11.733 |
| P797 | Defense Technology Analysis | | 5.525 | 5.700 | 5.728 | 5.888 | 6.006 | 6.101 |
| P798 | DDR&E Support Teams | | 8.083 | 5.340 | 5.487 | 5.544 | 5.583 | 5.632 |

**A. Mission Description and Budget Item Justification:** (U) The Director of Defense Research and Engineering (DDR&E) is the principal staff advisor to the Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L)) and the Secretary and Deputy Secretary of Defense for research and engineering matters. In this capacity, the DDR&E has the responsibility to conduct analyses and studies; develop policies; provide technical leadership, oversight and advice; make recommendations; and issue guidance for the DoD Research and Engineering plans and programs. Additionally, the DDR&E provides technical support to the USD(AT&L) on R&E aspects of programs subject to review by the Defense Acquisition Board, to include the conduct of a complete assessment of technology readiness consistent with DoD acquisition policy. This PE is a transfer from DLA to DDR&E for technical oversight, management and execution.

(U) This program element provides mission support to the Office of the DDR&E (ODDR&E). It covers a wide range of studies and analyses in support of the R&E program and impacts the Department's decision to fund RDT&E efforts. The DoD's key expertise for reviewing and guiding research and engineering programs resides in the ODDR&E. The ODDR&E staff augments their responsibilities through their connections to technology experts in various fields throughout academia, industry, and government. This project supports the directed responsibilities by building DDR&E Support Teams (DSTs) of technology experts to conduct program technical assessments. The DSTs will analyze the key engineering problem areas and offer adjustments in the development and test plan; alternate technical approaches; or new technologies that could enable successful development. The DSTs will constitute expert non-advocate reviews and gather advice from the Nation's leading technical experts. Future capabilities will depend on today's R&E investment. Consequently, the mission of the DoD R&E program is to create, demonstrate, prototype, and apply technology that enables affordable and decisive military superiority to defeat any adversary on any battlefield. Pursuing the R&E mission requires attention to: identification and development of new technological opportunities; insertion of new technologies into warfighting systems and operations; and management and evaluation of the effectiveness of technology programs. A successful R&E program is connected to the acquisition Program Managers/Program Executive Officers to ensure the best possible technology is being integrated into acquisition systems.

(U) This program element provides engineering, scientific and analytical support to the Office of the Deputy Under Secretary of Defense (Science and Technology) (ODUSD(S&T)) in its responsibility for direction, overall quality, and content of the Science and Technology (S&T) program and ensures that the technology being developed is affordable and minimizes system development risk. The primary purpose of this program element is to facilitate the development of the S&T program and conduct assessments and analyses of the S&T program to ensure maximum utilization of Research and Development funds to accomplish the overall objectives of the S&T program. Funds are required for technical and analytical support, equipment, supplies, travel, and publications.

(U) Technology Integration activities advance international science and technology (S&T) cooperation of specific projects of bilateral or multilateral interest. It provides the management support for U.S. participation in NATOs Research and Technology Organization (RTO) and The Technical Cooperative Program (TTCP). Technology Integration oversees, coordinates and reviews RTO and TTCP activities in which the U.S. has an interest including ongoing and proposed collaborative programs, technical symposia and conferences, and standard operating procedures. This effort will leverage Tri-Service S&T dollars through new and ongoing international partnerships. Technology Integration also provides selective funding support for administration, travel, conferences, and technical evaluations related to RTO activities carried out by the Services and other

organizations.

| **B. Program Change Summary** | FY 2007 | FY 2008 | FY 2009 |
|---|---|---|---|
| Previous President's Budget (FY 2008) | | 11.927 | 11.060 |
| Current BES/President's Budget (FY 2009) | | 13.608 | 11.040 |
| Total Adjustments | | 1.681 | -0.020 |
| Congressional Program Reductions | | -0.119 | |
| Congressional Rescissions | | | |
| Congressional Increases | | 1.800 | |
| Reprogrammings | | | |
| SBIR/STTR Transfer | | | |
| Other | | | -0.020 |

**C. Other Program Funding Summary** Not applicable for this item.

**D. Acquisition Strategy** Not applicable for this item.

**E. Performance Metrics:**

| FY | Strategic Goals Supported | Existing Baseline | Planned Performance Improvement / Requirement Goal | Actual Performance Improvement | Planned Performance Metric / Methods of Measurement | Actual Performance Metric / Methods of Measurement |
|---|---|---|---|---|---|---|
| 08 | | | | | | |

Comment: Performance metrics are reflected in the number and quality of studies, technical efforts, and support to the ODDR&E.

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

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| APPROPRIATION/ BUDGET ACTIVITY | PE NUMBER AND TITLE | PROJECT |
|---|---|---|
| **RDTE, Defense Wide BA 06** | **0605798D8Z - Defense Technology Analysis** | **P797** |

| COST ($ in Millions) | | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate |
|---|---|---|---|---|---|---|---|---|
| P797 | Defense Technology Analysis | | 5.525 | 5.700 | 5.728 | 5.888 | 6.006 | 6.101 |

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**B. Accomplishments/Planned Program:**

| Accomplishments/Planned Program Title: | FY 2007 | FY 2008 | FY 2009 |
|---|---|---|---|
| DoD Technical Analysis | | 5.525 | 5.700 |

FY 2008 Plans:

Provide engineering, scientific, analytical, and managerial support to the ODDR&E in developing strategies and plans to exploit and develop technology.

Provide engineering, scientific, analytical, and managerial support to the ODDR&E in conducting analyses, developing policies, making recommendations, and developing guidance for science and technology plans and programs.

Provide engineering, scientific, analytical, and managerial support to the ODDR&E in reviewing proposed and approved science and technology programs and make recommendations to optimize effectiveness of the DoD investments in science and technology.

Provide engineering, scientific, analytical, and managerial support to the ODDR&E in oversight of science and technology issues and initiatives and responding to Congressional special interests.

Through an international technology watch effort, identify ongoing and proposed S&T efforts that could complement efforts or fill shortfalls in meeting U.S. S&T requirements, objectives and goals.

Foster international bilateral and multilateral cooperative agreements in high value science & technology areas with allies, nonaligned nations and former Soviet Block nations. Establish data exchange agreements, engineer and scientist exchange program visits, international technology assessments and new cooperative programs.

Seek opportunities for international cooperation in high priority S&T. Conduct intradepartmental coordination to achieve goals as necessary.

FY 2009 Plans:

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Seek opportunities for international cooperation in high priority S&T. Conduct intradepartmental coordination to achieve goals as necessary.

**C. Other Program Funding Summary** Not applicable for this item.

**D. Acquisition Strategy** Not applicable for this item.

**E. Major Performers** Not applicable for this item.

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**February 2008**

| APPROPRIATION/ BUDGET ACTIVITY | PE NUMBER AND TITLE | PROJECT |
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| COST ($ in Millions) | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | FY 2012 Estimate | FY 2013 Estimate |
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| P798 DDR&E Support Teams | | 8.083 | 5.340 | 5.487 | 5.544 | 5.583 | 5.632 |

**A. Mission Description and Budget Item Justification:** U) The DoDs key expertise for reviewing and guiding research and engineering programs resides in the ODDR&E. The ODDR&E staff augments their responsibilities through their connections to technology experts in various fields throughout academia, industry, and government. This project supports the directed responsibilities by building DDR&E Support Teams (DSTs) of technology experts to conduct program technical health check-ups. The DSTs will analyze the key engineering problem areas and offer adjustments in the development and test plan; alternate technical approaches; or new technologies that could enable successful development. The DSTs will constitute expert non-advocate reviews and gather advice from the Nations leading technical experts. Future capabilities will depend on todays R&E investment. Consequently, the mission of the DoD R&E program is to create, demonstrate, prototype, and apply technology that enables affordable and decisive military superiority to defeat any adversary on any battlefield. Pursuing the R&E mission requires attention to: identification and development of new technological opportunities; insertion of new technologies into warfighting systems and operations; and management and evaluation of the effectiveness of technology programs. A successful R&E program is connected to the acquisition Program Managers/Program Executive Officers to ensure the best possible technology is being integrated into acquisition systems.

**B. Accomplishments/Planned Program:**

| Accomplishments/Planned Program Title: | FY 2007 | FY 2008 | FY 2009 |
|---|---|---|---|
| DDR&E Support Teams | | 8.083 | 5.340 |

FY 2008 Plans: (U) For selected acquisition programs and efforts, review in technical detail the respective program issues and offer technical solutions to program managers. Assessing the maturity of technology that is a candidate for transitioning to an acquisition program is important for efficient and timely fielding of improved military systems. The execution of a technology maturity assessment at all acquisition milestone decisions is now formally required by the Defense Acquisition Board. It is essential that the R&E community maintain close ties with the acquisition Program Managers and Program Executive Officers to enable the best possible technology maturity assessments.

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**D. Acquisition Strategy** Not applicable for this item.

**E. Major Performers** Not applicable for this item.