

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

May 2009

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

PE NUMBER AND TITLE  
**0605161D8Z - Nuclear Matters**

PROJECT  
**P161**

- Prepare, staff, and submit for review by the Senior NSPD-28 Oversight Committee, and its support committee, the NSPD-28 Oversight Committee, status reports regarding the implementation of recommendations made by boards, panels and commissions regarding the surety of DoD nuclear assets.

FY 2010 Plans:

- Facilitate nuclear weapons complex site visits for individuals within the nuclear weapons community, including senior DoD/DOE officials.
- Prepare, staff, and submit annual reports to the President and the Congress to include the FY 2010-2016 Nuclear Weapons Stockpile Memorandum and Requirements Planning Document, FY 2009 Report on Stockpile Assessment, FY 2009 Joint Surety Report and the FY 2009 NWC Report to Congress.
- Continue to manage the activities on the Congressionally mandated Joint DOD-DOE Nuclear Weapons Council and its support committees to include the Nuclear Weapons Council Standing and Safety Committee, the Compartmented Advisory Committee and the Action Officer group.

Accomplishments/Planned Program Title:	FY 2008	FY 2009	FY 2010
International Programs	0.500	0.500	0.500

FY 2008 Accomplishments:

- Continued FY 2007 initiatives.
- Developed arrangements and managed US-UK nuclear warhead enhanced collaboration activities.
- Provide key international partners, in the nuclear weapons establishment, assistance with program overhaul and forward momentum - upgrade peer review potential in this area.
- Sponsor international partners at national-level nuclear weapons accident/incident exercises.
- Contribute to confidence building measures with close nuclear power nations.

FY 2009 Plans:

- Build upon FY 2008 initiatives.
- Execute confidence building programs of cooperation with international partners.
- Sponsor international partners at national-level nuclear weapons accident/incident exercises.

FY 2010 Plans:

- Build upon FY 2009 initiatives.
- Execute confidence building programs of cooperation with international partners.
- Sponsor international partners at national-level nuclear weapons accident/incident exercises.

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FY 2010 Plans:

- Continue to conduct life cycle activities in support of the nuclear weapons stockpile under DoDD 3150.1, "Nuclear Weapons Life Cycle" and DODI 5030.55, "DoD Procedures for Joint DoD-DOE Nuclear Weapons Life Cycle Activities.
- Continue to manage DoD RDT&E activities for nuclear warheads to include B61, W76, W78, W80(0,1), B83, W87, W88 Weapons.
- Continue to support studies for warhead replacement.
- Continue programs to assess the future of the nuclear weapon stockpile.
- Oversee and evaluate the review of warhead life extension refurbishments.
- Continue to maintain and exercise a nuclear enterprise model for DoD.
- Continue to support new Task Forces for strategic systems.
- Continue to provide technical support to maintain strategic materials and nuclear power systems.
- Conduct analysis of possible warhead replacements using modeling and simulation tools.
- Develop an analytical tool for the evaluation of alternatives for the nuclear enterprise.
- Develop a strategic communications strategy and plan for communicating stockpile options to stakeholders.

**Accomplishments/Planned Program Title:**

Survivability and Weapons of Mass Destruction (WMD)

	FY 2008	FY 2009	FY 2010
	0.500	0.500	1.140

FY 2008 Accomplishments:

- Assisted Chemical and Bio Defense Programs in publishing a DoD Chemical, Biological, Radiological and Nuclear Survivability directive.
- Began to publish a DoD directive to govern post-detonation nuclear forensics activities.
- Provided direction for DoD and OSD preparations to train for response actions, under DoDD 3150.8, "DoD Response to Radiological Accidents.
- Planned and trained for OSD participation in Diablo Bravo 2008 (DB 08) nuclear weapon accident exercise led by DOE/NSA.
- Participated in interagency tabletop exercises in preparation for DB 08 and began planning Ardent Sentry 2009 (AS 09).
- Maintained the office Go-Kit and classified website to enhance coordination in the event of a nuclear weapon accident.
- Directed and coordinated the activities of the Nuclear Command and Control System (NCCS) Committee of Principals Subcommittee on Nuclear Weapon Accident Response and the Policy Working Group.
- Continued to implement the DoD Action Plan for assessing vulnerability to High-Altitude Electro-Magnetic Pulse (HEMP) and briefed the EMP Commission on progress multiple times.
- Monitored and advised OSD on the status of DoD capability for Nuclear Weapons Effects Simulators and Simulation.
- Continued to support the DoD executive agency (ASD(Homeland Defense)) for interagency actions concerning Combating Weapons of Mass Destruction at home and abroad.
- Planned and coordinated the activities of the National Nuclear Forensics Steering Committee and Working Group.

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- Conduct OSD oversight and provide direction for actions taken under DoDD 4540.5, "Transportation of Nuclear Weapons"; DoDD S-5210.81, "United States Nuclear Weapons Command and Control, Safety, and Security"; DoDD S-3150.7, "Controlling the Use of Nuclear Weapons"; DoDD 5210.42 and 5210.42-R, "The DoD Personnel Reliability Program"; and DoDD 5210-41 and S-5210.41-M, "Physical Security of Nuclear Weapons."
- Continue to support activities that support nuclear surety policy and provide OSD oversight of the Nuclear Surety program.

**Accomplishments/Planned Program Title:**

Stockpile Transformation

FY 2008	FY 2009	FY 2010
1.000	1.050	1.734

**FY 2008 Accomplishments:**

- Conducted life cycle activities in support of the nuclear weapons stockpile under DoDD 3150.1, "Nuclear Weapons Life Cycle" and DODI 5030.55, "DoD Procedures for Joint DoD-DOE Nuclear Weapons Life Cycle Activities.
- Continued to manage DoD RDT&E activities for nuclear warheads to include B61, W62, W76, W78, W80 (0.1), B83, W87, W88 Weapons.
- Supported studies for warhead replacement.
- Conducted a modernization study for the B61.
- Conducted trade-off studies on behalf of the Nuclear Transformation Working Group.
- Continued programs to assess the future of the nuclear weapon stockpile.
- Supported new Task Forces for strategic systems.
- Continued to develop and implement a Nuclear Matters knowledge system to help preserve nuclear weapons information for operational improvements and continuity.
- Provided technical support to maintain strategic materials and nuclear power systems.
- Continued to develop a nuclear enterprise model for DoD.

**FY 2009 Plans:**

- Continue to conduct life cycle activities in support of the nuclear weapons stockpile under DoDD 3150.1, "Nuclear Weapons Life Cycle" and DODI 5030.55, "DoD Procedures for Joint DoD-DOE Nuclear Weapons Life Cycle Activities.
- Continue to manage DoD RDT&E activities for nuclear warheads to include B61, W62, W76, W78, W80(0.1), B83, W87, W88 Weapons.
- Continue to support studies for warhead replacement.
- Oversee the analysis of low-cost warhead back-up options.
- Maintain and exercise a nuclear enterprise model for DoD.
- Continue programs to assess the future of the nuclear weapon stockpile.
- Continue to support new Task Forces for strategic systems.
- Continue to provide technical support to maintain strategic materials and nuclear power systems.