

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

May 2009

APPROPRIATION/ BUDGET ACTIVITY <b>RDTE, Defense Wide BA# 6</b>		PE NUMBER AND TITLE <b>0605161D8Z - Nuclear Matters</b>						
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate					
P161 Nuclear Matters	4.354	4.451	6.474					

**A. Mission Description and Budget Item Justification:**

The purpose of the Nuclear Matters program, formerly called Counterproliferation Support, is to sustain the U.S. nuclear deterrent posture. The funds for this program are used to support research, development, test and evaluation efforts as well as studies and analyses for nuclear weapons security; use control; nuclear weapons stockpile safety, survivability and performance; and office management. Funds are also used to develop and implement plans for stockpile transformation; infrastructure analyses and assessments; DoD-NNSA Nuclear Weapons Council activities, as mandated by Title 10 USC, section 179; radiological and nuclear emergency response efforts; and manage international programs of nuclear cooperation, particularly with respect to enhancing international nuclear safety and security and office management. In fiscal year 2004, this program incorporated additional responsibility for policy development and implementation, and operations and oversight of nuclear weapons physical security and Personnel Reliability Programs for the protection of tactical, fixed and nuclear weapons systems, DoD personnel and DoD facilities.

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<u><b>B. Program Change Summary</b></u>	FY 2008	FY 2009	FY 2010	
Previous President's Budget (FY 2008/2009)	4.475	4.475	4.587	
Current BES/President's Budget (FY 2010)	4.354	4.451	6.474	
Total Adjustments	-0.121	-0.024	1.887	
Congressional Program Reductions				
Congressional Rescissions		-0.024		
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer	-0.112			
Other	-0.009		1.887	

Funding has been realigned in the FY 2010 to provide greater oversight and analysis of enterprise-wide nuclear surety efforts that impact the Department's nuclear deterrent capability.

**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:

Success in this area is measured by compliance with various statutes and DoD directives that govern the conduct of the affairs within the Office of DATSD (Nuclear Matters). Success is also measured by the currency of information and usability of the website, timeliness and responsiveness of reports due to Congress, performance in various response exercises, and feedback from a number of senior-level government organizations that DATSD (Nuclear Matters) supports.

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

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APPROPRIATION/ BUDGET ACTIVITY <b>RDTE, Defense Wide BA# 6</b>		PE NUMBER AND TITLE <b>0605161D8Z - Nuclear Matters</b>				PROJECT <b>P161</b>		
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate					
P161 Nuclear Matters	4.354	4.451	6.474					

**A. Mission Description and Budget Item Justification:**

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**B. Accomplishments/Planned Program:**

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Nuclear Weapons Council (NWC) and Committee of Principals (CoP)	1.000	1.050	1.040

**FY 2008 Accomplishments:**

- Continued 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.
- Prepared, staffed, and submitted for review by the Senior National Security Presidential Directive (NSPD-28) Oversight Committee and its support committee, the NSPD-28 Oversight Committee, recommendations from boards, panels and commissions regarding the surety of DoD nuclear assets.
- Prepared, staffed, and submitted annual reports to the President and the Congress to include the FY 2008-2014 Nuclear Weapons Stockpile Memorandum and Requirements Planning Document, FY 2007 Report on Stockpile Assessment, FY 2007 Joint Surety Report and the FY 2007 NWC Report to Congress.
- Conducted a week-long trip to several nuclear weapons complex sites for over sixty individuals within the nuclear weapons community including senior DoD/DOE officials.
- Maintained oversight and managed departmental compliance on all NSPD-28 implementation efforts across all Nuclear Command and Control System (NCCS) Departments and Agencies through the NCCS CoP and its subordinate committees.
- Managed the response to Presidential guidance concerning the FY07 NCCS Assessment Program.
- Continued to support the Nuclear Weapons Council and its associated functions.

**FY 2009 Plans:**

- Oversee NWC activities regarding the development of a responsive infrastructure for stockpile support.
- Continue to manage the activities of 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.
- Prepare, staff, and submit annual reports to the President and the Congress to include the FY 2009-2015 Nuclear Weapons Stockpile Memorandum and Requirements Planning Document, FY 2008 Report on Stockpile Assessment, FY 2008 Joint Surety Report and the FY 2008 NWC Report to Congress.

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**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:**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
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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<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Nuclear Surety	1.054	1.050	1.040

FY 2008 Accomplishment:

- Continued to develop and coordinate a DoD Nuclear Weapons Physical Security (NWPS) Roadmap.
- Supported the development of an automated risk management tool for physical security.
- Conducted OSD oversight and provide direction for actions taken under DoDD 4540.5, "Transportation of Nuclear Weapons"; DoDI S-5210.82, "Protection of Nuclear Coding Equipment"; 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."
- Updated DoD policy, responsibilities and procedures in DoD publications to include DoDD S-5210.41-M, "Physical Security of Nuclear Weapons."
- Reviewed DoD policy, responsibilities and procedures described in DoDD 5210-.41, ""Security Policy for Protecting Nuclear Weapons."
- Reviewed DoD policy, responsibilities and procedures described in DoDD 3150.2, DoDD 3150.2-M "DoD Nuclear Weapons Safety Program," and DoDD 3150.3, "Nuclear Forces Security and Safety."
- Continued as DoD Sigma 14 Approval Authority (interface with DOE/NNSA).
- Continued to support the operations of the Joint Advisory Committee on Nuclear Weapons Surety (JAC).
- Supported and participated in NATO nuclear weapons policy and oversight groups, including the High Level Group and the Joint Theatre Surety Management Group.
- Continued to support activities that support nuclear surety policy and provide OSD oversight of the Nuclear Surety program.

FY 2009 Plans:

- Complete the DoD Nuclear Weapons Physical Security (NWPS) Roadmap.
- Complete the development of the physical security risk management tool.
- Oversee the implementation of recommendations various boards, commissions, and panels regarding nuclear surety.
- 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.

FY 2010 Plans:

- Continue to oversee the implementation of recommendations various boards, commissions, and panels regarding nuclear surety.
- Complete the development of the physical security risk management tool.

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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.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Stockpile Transformation	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.

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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.

<u><b>Accomplishments/Planned Program Title:</b></u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Survivability and Weapons of Mass Destruction (WMD)	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/NNSA.
- 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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- Began to develop OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.

## FY 2009 Plans:

- Continue planning and coordinating the activities of the National Nuclear Forensics Steering Committee and Working Group.
- Publish a DoD directive to govern post-detonation nuclear forensics activities.
- Continue to develop OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.
- Oversee the integration of all DoD nuclear defense capabilities in support of the Global Nuclear Defense Initiative.
- Develop the acquisition strategy for DoD Combating Weapons of Mass Destruction requirements.
- Provide direction for DoD and OSD preparations to train for response actions, under DoDD 3150.8, "DoD Response to Radiological Accidents.
- Maintain the office Go-Kit and classified website to enhance coordination in the event of a nuclear weapon accident.
- Direct and coordinate the activities of the NCCS Committee of Principals Subcommittee on Nuclear Weapon Accident Incident Response and the Policy Working Group.
- Implement new DoD directive for Chemical Biological, Radiological, and Nuclear Survivability Policy and stand up the Senior Oversight Group (SOG).
- Monitor and advise OSD on the status of DoD capability for Nuclear Weapons Effects Simulators and Simulation.
- Continue to support the DoD executive agency (ASD(Homeland Defense)) for interagency actions concerning Combating Weapons of Mass Destruction at home and abroad.
- Continue Nuclear Defense Portfolio oversight.

## FY 2010 Plans:

- Continue Nuclear Defense Portfolio oversight.
- Analyze nuclear forensics and other nuclear defense activities to ensure they are in synch with broader interagency tasks.
- Continue planning and coordinating the activities of the National Nuclear Forensics Steering Committee and Working Group.
- Continue to develop OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.
- Continue to oversee the integration of all DoD nuclear defense capabilities in support of the Global Nuclear Defense Initiative.
- Continue to oversee the acquisition strategy for DoD Combating Weapons of Mass Destruction requirements.
- Continue to provide direction for DoD and OSD preparations to train for response actions, under DoDD 3150.8, "DoD Response to Radiological Accidents.
- Continue to maintain the office Go-Kit and classified website to enhance coordination in the event of a nuclear weapon accident.
- Continue to direct and coordinate the activities of the NCCS Committee of Principals Subcommittee on Nuclear Weapon Accident Response.
- Continue to implement CBRN Survivability Policy and support the SOG.
- Continue to monitor and advise OSD on the status of DoD capability for Nuclear Weapons Effects Simulators and Simulation.
- Continue to support the DoD executive agency (ASD(Homeland Defense)) for interagency actions concerning Combating Weapons of Mass Destruction at home and abroad.

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<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Nuclear Matters	0.300	0.301	1.020	

FY 2008 Accomplishments:

- Submitted annual reports to the President and the Congress.
- Initiated the updating and documentation of DoD nuclear weapon policy, responsibilities, and procedures in DoD publications.
- Continued to manage the protection of classified nuclear weapons information including access to and dissemination of Restricted Data, as mandated by Enclosure 5, DoDD 5210.2, "Access to and Dissemination of Restricted Data".
- Continued as DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).
- Addressed Freedom of Information Act and Mandatory Declassification Requests.

FY 2009 Plans:

- Submit annual reports to the President and the Congress.
- Continue to oversee DoD/DOE relationship regarding the survivability and surety of the national nuclear stockpile.
- Continue as DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).
- Continue to address Freedom of Information Act and Mandatory Declassification Requests.

FY 2010 Plans:

- Submit annual reports to the President and the Congress.
- Continue to oversee DoD/DOE relationship regarding the survivability and surety of the national nuclear stockpile.
- Continue as DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).
- Continue to address Freedom of Information Act and Mandatory Declassification Requests.
- Establish a means to provide nuclear technical expertise to senior advisory groups.
- Establish a program to promote nuclear enterprise awareness and outreach.

**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.

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