

# UNCLASSIFIED

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Office of Secretary Of Defense **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
0400: Research, Development, Test & Evaluation, Defense-Wide BA 6: RDT&E Management Support				PE 0605161D8Z: Nuclear Matters - Physical Security							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	6.197	4.114	4.901	-	4.901	4.969	5.040	5.052	5.151	Continuing	Continuing
P161: Nuclear Matters	6.197	4.114	4.901	-	4.901	4.969	5.040	5.052	5.151	Continuing	Continuing

## A. Mission Description and Budget Item Justification

The purpose of the Nuclear Matters program is to sustain the U.S. nuclear deterrent posture, counter nuclear threats, and to develop nuclear and conventional physical security equipment. 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; countering nuclear threats 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 management of international programs of nuclear cooperation, particularly with respect to enhancing international nuclear safety and security and office management. Nuclear Matters is also responsible for policy development and implementation for personnel reliability; nuclear weapons, nuclear command and control, and special nuclear materials security; use control; nuclear weapons transportation; physical security equipment; countering nuclear threats; and nuclear and radiological incident response.

This Program Element can fund travel to support the requirements of this program.

This appropriation will finance work, including manpower, performed by a government agency or by private individuals or organizations under a contractual or grant arrangement with the government who conduct research (systematic study directed toward fuller scientific knowledge or understanding of the subject studied), development (systematic use of the knowledge and understanding gained from research, for the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes) and test and evaluation efforts.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Previous President's Budget	6.264	4.261	4.961	-	4.961
Current President's Budget	6.197	4.114	4.901	-	4.901
Total Adjustments	-0.067	-0.147	-0.060	-	-0.060
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.067	-0.119			
• Economic adjustments	-	-0.028	-0.060	-	-0.060

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0605161D8Z: Nuclear Matters - Physical Security				PROJECT P161: Nuclear Matters			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
P161: Nuclear Matters	6.197	4.114	4.901	-	4.901	4.969	5.040	5.052	5.151	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>The purpose of the Nuclear Matters program is to sustain the U.S. nuclear deterrent posture, counter nuclear threats, and to develop nuclear and conventional physical security equipment. 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; countering nuclear threats 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 management of international programs of nuclear cooperation, particularly with respect to enhancing international nuclear safety and security and office management. Nuclear Matters is also responsible for policy development and implementation for personnel reliability; nuclear weapons, nuclear command and control, and special nuclear materials security; use control; nuclear weapons transportation; physical security equipment; countering nuclear threats; and nuclear and radiological incident response.</p> <p>This Program Element can fund travel to support the requirements of this program.</p> <p>This appropriation will finance work, including manpower, performed by a government agency or by private individuals or organizations under a contractual or grant arrangement with the government who conduct research (systematic study directed toward fuller scientific knowledge or understanding of the subject studied), development (systematic use of the knowledge and understanding gained from research, for the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes) and test and evaluation efforts.</p>											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2011	FY 2012	FY 2013	
Title: Nuclear Weapons Council (NWC) and Committee of Principals (CoP)								0.836	0.658	0.785	
Description: The Nuclear Weapons Council (NWC) is a joint Department of Defense (DoD) and Department of Energy (DOE)/ National Nuclear Security Administration (NNSA) organization established by Congress to facilitate cooperation and coordination between the two Departments as they fulfill their dual agency responsibilities for U.S. nuclear weapons stockpile management.											
FY 2011 Accomplishments: - Managed 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											
FY 2012 Plans:											

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<p>- Oversee 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</p> <p><b>FY 2013 Plans:</b></p> <p>- Oversee 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</p>				
<p><b>Title:</b> International Programs</p> <p><b>Description:</b> The United States also participates in several international programs of cooperation regarding nuclear weapons with foreign governments and regional defense organizations that involve unclassified and classified information exchanges. In general, these agreements are designed to promote safety and security, advance stockpile stewardship and collaborate in counter-proliferation efforts.</p> <p><b>FY 2011 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- Build upon FY 2011 initiatives.</li> <li>- Executed confidence building programs of cooperation with international partners.</li> <li>- Sponsored international partners at national-level nuclear weapons accident/incident exercises.</li> </ul> <p><b>FY 2012 Plans:</b></p> <ul style="list-style-type: none"> <li>- Execute confidence building programs of cooperation with international partners.</li> <li>- Sponsor international partners at national-level nuclear weapons accident/incident exercises.</li> </ul> <p><b>FY 2013 Plans:</b></p> <ul style="list-style-type: none"> <li>- Execute confidence building programs of cooperation with international partners.</li> <li>- Sponsor international partners at national-level nuclear weapons accident/incident exercises.</li> </ul>		0.526	0.295	0.363
<p><b>Title:</b> Nuclear Surety</p> <p><b>Description:</b> Because of their political and military importance, destructive power, and the potential consequences of an accident or unauthorized act, nuclear weapons and nuclear weapon systems require special consideration and must be protected against risks and threats inherent in their peacetime and wartime environments. Oversight of the DoD nuclear surety program is provided by Deputy Assistant Secretary of Defense for Nuclear Matters (DASD(NM)).</p> <p><b>FY 2011 Accomplishments:</b></p>		1.034	0.658	0.785

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<ul style="list-style-type: none"> <li>- Conducted 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."</li> <li>- Supported activities that support nuclear surety policy and provide OSD oversight of the Nuclear Surety program.</li> </ul> <p><b>FY 2012 Plans:</b></p> <ul style="list-style-type: none"> <li>- 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."</li> <li>- Support activities that support nuclear surety policy and provide OSD oversight of the Nuclear Surety program.</li> </ul> <p><b>FY 2013 Plans:</b></p> <ul style="list-style-type: none"> <li>- 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."</li> <li>- Support activities that support nuclear surety policy and provide OSD oversight of the Nuclear Surety program.</li> </ul>				
<p><b>Title:</b> Stockpile Transformation</p> <p><b>Description:</b> To meets its security needs and those of its allies, the U.S. will need a safe, secure, and reliable nuclear deterrent for the foreseeable future. There's increased risk, absent nuclear testing, in assuring long-term safety and reliability of today's aging stockpile—the legacy warheads left over from the Cold War. Today's nuclear weapons complex is not sufficiently "responsive" to technical problems in the stockpile, or to potential emerging threats. The task is to ensure the U.S. nuclear weapons stockpile and supporting infrastructure, meets long-term national security needs.</p> <p><b>FY 2011 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Managed DoD RDT&amp;E activities for nuclear warheads to include B61, W76, W78, W80(0,1), B83, W87, W88 Weapons.</li> <li>- Supported studies for warhead replacement.</li> <li>- Assessed the future of the nuclear weapon stockpile.</li> <li>- Oversaw the development of next-generation delivery systems.</li> <li>- Completed stockpile transformation plans.</li> </ul>		1.557	1.031	1.218

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>
<ul style="list-style-type: none"> <li>- Supported new Task Forces for strategic systems.</li> <li>- Maintained and exercised a nuclear enterprise model for DoD.</li> <li>- Provided technical support to maintain strategic materials and nuclear power systems.</li> <li>- Developed a technical analytical capability for making critical decisions regarding the nuclear enterprise.</li> <li>- Conducted analysis of possible warhead replacements using modeling and simulation tools.</li> </ul> <p><b>FY 2012 Plans:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Manage DoD RDT&amp;E activities for nuclear warheads to include B61, W76, W78, W80(0,1), B83, W87, W88 Weapons.</li> <li>- Support studies for warhead replacement.</li> </ul> <p><b>FY 2013 Plans:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Manage DoD RDT&amp;E activities for nuclear warheads to include B61, W76, W78, W80(0,1), B83, W87, W88 Weapons.</li> <li>- Support studies for warhead replacement.</li> </ul>			
<p><b>Title:</b> Survivability and Weapons of Mass Destruction (WMD)</p> <p><b>Description:</b> In the 2010 Quadrennial Defense Review (QDR), the SECDEF directed the Department to rebalance its policy, doctrine, and capabilities to better support six key missions. The fifth on the list of key missions is to prevent proliferation and counter weapons of mass destruction. This project directly supports the nation's defense strategy.</p> <p><b>FY 2011 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- Continue Nuclear Defense Portfolio oversight.</li> <li>- Planned and coordinated the activities of the National Nuclear Forensics Steering Committee and Working Group.</li> <li>- Developed OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.</li> <li>- Oversaw the integration of all DoD nuclear defense capabilities in support of the Global Nuclear Defense Initiative.</li> <li>- Oversaw the acquisition strategy for DoD Combating Weapons of Mass Destruction requirements.</li> <li>- Provided direction for DoD and OSD preparations to train for response actions, under DoDD 3150.8, "DoD Response to Radiological Accidents.</li> <li>- Maintained the office Go-Kit and classified website to enhance coordination in the event of a nuclear weapon accident.</li> <li>- Directed and coordinated the activities of the NCCS Committee of Principals Subcommittee on Nuclear Weapon Accident Response.</li> <li>- Implemented CBRN Survivability Policy and support the SOG.</li> </ul>		1.195	0.773
			0.918

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<ul style="list-style-type: none"> <li>- Monitored and advised OSD on the status of DoD capability for Nuclear Weapons Effects Simulators and Simulation.</li> <li>- Supported the DoD executive agency (ASD(Homeland Defense)) for interagency actions concerning Combating Weapons of Mass Destruction at home and abroad.</li> </ul> <p><b>FY 2012 Plans:</b></p> <ul style="list-style-type: none"> <li>- Oversee the Nuclear Defense Portfolio.</li> <li>- Plan and coordinate the activities of the National Nuclear Forensics Steering Committee and Working Group.</li> <li>- Develop OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.</li> <li>- Oversee the integration of all DoD nuclear defense capabilities in support of the Global Nuclear Defense Initiative.</li> <li>- Support International Conference on Nuclear Security and Technology Demonstrations as part of the Nuclear Security Summit process.</li> </ul> <p><b>FY 2013 Plans:</b></p> <ul style="list-style-type: none"> <li>- Oversee the Nuclear Defense Portfolio.</li> <li>- Plan and coordinate the activities of the National Nuclear Forensics Steering Committee and Working Group.</li> <li>- Develop OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.</li> <li>- Oversee the integration of all DoD nuclear defense capabilities in support of the Global Nuclear Defense Initiative.</li> <li>- Support International Conference on Nuclear Security and Technology Demonstrations as part of the Nuclear Security Summit process.</li> </ul>				
<p><b>Title:</b> Nuclear Matters Support Program</p> <p><b>Description:</b> The Nuclear Matters support program conducts studies / analyses; DoD-NNSA Nuclear Weapons Council activities; and provides funding for analytical support functions.</p> <p><b>FY 2011 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- Submitted annual reports to the President and the Congress.</li> <li>- Oversaw DoD/DOE relationship regarding the survivability and surety of the national nuclear stockpile.</li> <li>- Served as the DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).</li> <li>- Addressed Freedom of Information Act and Mandatory Declassification Requests.</li> </ul> <p><b>FY 2012 Plans:</b></p> <ul style="list-style-type: none"> <li>- Submit annual reports to the President and the Congress.</li> <li>- Continue to oversee DoD/DOE relationship regarding the survivability and surety of the national nuclear stockpile.</li> <li>- Continue as DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).</li> </ul>		1.049	0.699	0.832

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<ul style="list-style-type: none"> <li>- Continue to address Freedom of Information Act and Mandatory Declassification Requests.</li> </ul> <p><b><i>FY 2013 Plans:</i></b></p> <ul style="list-style-type: none"> <li>- Submit annual reports to the President and the Congress.</li> <li>- Continue to oversee DoD/DOE relationship regarding the survivability and surety of the national nuclear stockpile.</li> <li>- Continue as DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).</li> <li>- Continue to address Freedom of Information Act and Mandatory Declassification Requests.</li> </ul>				
<b>Accomplishments/Planned Programs Subtotals</b>		6.197	4.114	4.901
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>D. Acquisition Strategy</b> N/A				
<b>E. Performance Metrics</b> 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 DASD(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 DASD(Nuclear Matters) supports.				