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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Office of Secretary Of Defense **DATE:** February 2011

| <b>APPROPRIATION/BUDGET ACTIVITY</b>   |                |                |                     | <b>R-1 ITEM NOMENCLATURE</b>          |                      |                |                |                |                |                         |                   |
|--|----------------|----------------|---------------------|---------------------------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i><br>BA 6: <i>RDT&amp;E Management Support</i> |                |                |                     | PE 0605161D8Z: <i>Nuclear Matters</i> |                      |                |                |                |                |                         |                   |
| <b>COST (\$ in Millions)</b>   | <b>FY 2010</b> | <b>FY 2011</b> | <b>FY 2012 Base</b> | <b>FY 2012 OCO</b>                    | <b>FY 2012 Total</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
| Total Program Element  | 5.564          | 6.264          | 4.261               | -                                     | 4.261                | 4.961          | 5.028          | 5.095          | 5.146          | Continuing              | Continuing        |
| P161: <i>Nuclear Matters</i>   | 5.564          | 6.264          | 4.261               | -                                     | 4.261                | 4.961          | 5.028          | 5.095          | 5.146          | 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 analysis 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 analysis and assessments; DoD-NSA 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. The Nuclear Matters program is also responsible for policy development and implementation, and operations and oversight of the Personnel Reliability Program, nuclear and conventional physical security equipment, and for the protection of nuclear and non-nuclear weapons systems, DoD personnel and facilities.

Ensure sufficient funding is available for travel to support the requirements of this program element.

| <b>B. Program Change Summary (\$ in Millions)</b>               | <b>FY 2010</b> | <b>FY 2011</b> | <b>FY 2012 Base</b> | <b>FY 2012 OCO</b> | <b>FY 2012 Total</b> |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                                     | 6.422          | 6.264          | 6.360               | -                  | 6.360                |
| Current President's Budget                                      | 5.564          | 6.264          | 4.261               | -                  | 4.261                |
| Total Adjustments   | -0.858         | -              | -2.099              | -                  | -2.099               |
| • Congressional General Reductions                              |                | -              |                     |                    |                      |
| • Congressional Directed Reductions                             |                | -              |                     |                    |                      |
| • Congressional Rescissions                                     | -              | -              |                     |                    |                      |
| • Congressional Adds  |                | -              |                     |                    |                      |
| • Congressional Directed Transfers                              |                | -              |                     |                    |                      |
| • Reprogrammings  | -              | -              |                     |                    |                      |
| • SBIR/STTR Transfer  | -              | -              |                     |                    |                      |
| • Other Program Adjustments                                     | -0.858         | -              | -1.699              | -                  | -1.699               |
| • Defense Efficiency - Contractor Staff Support                 | -              | -              | -0.234              | -                  | -0.234               |
| • Defense Efficiency - Report, Studies, Boards, and Commissions | -              | -              | -0.117              | -                  | -0.117               |
| • Defense Efficiency - Baseline Review                          | -              | -              | -0.042              | -                  | -0.042               |
| • Economic Assumptions  | -              | -              | -0.007              | -                  | -0.007               |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense   |   | DATE: February 2011 |
| APPROPRIATION/BUDGET ACTIVITY<br>0400: Research, Development, Test & Evaluation, Defense-Wide<br>BA 6: RDT&E Management Support  | R-1 ITEM NOMENCLATURE<br>PE 0605161D8Z: Nuclear Matters |                     |
| <p><b><u>Change Summary Explanation</u></b></p> <p>Defense Efficiency – Baseline Review. As part of the Department of Defense reform agenda, implements a zero-based review of the organization to align resources to the most critical priorities and eliminate lower priority functions.</p> <p>Defense Efficiency – Report, Studies, Boards and Commissions. As part of the Department of Defense reform agenda, reflects a reduction in the number and cost of reports, studies, DoD Boards and DoD Commissions below the aggregate level reported in previous budget submission.</p> <p>Defense Efficiency – Contractor Staff Support. As part of the Department of Defense reform agenda, reduces funds below the aggregate level reported in the previous budget submission for contracts that augment staff functions.</p> |   |                     |

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Office of Secretary Of Defense **DATE:** February 2011

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| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i><br>BA 6: <i>RDT&amp;E Management Support</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0605161D8Z: <i>Nuclear Matters</i> | <b>PROJECT</b><br>P161: <i>Nuclear Matters</i> |
|--|---|--|

| COST (\$ in Millions)        | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
|------------------------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| P161: <i>Nuclear Matters</i> | 5.564   | 6.264   | 4.261        | -           | 4.261         | 4.961   | 5.028   | 5.095   | 5.146   | Continuing       | Continuing |
| Quantity of RDT&E Articles   |         |         |              |             |               |         |         |         |         |                  |            |

**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. The Nuclear Matters program is also responsible for policy development and implementation, and operations and oversight of the Personnel Reliability Program, nuclear and conventional physical security equipment, and for the protection of nuclear and non-nuclear weapons systems, DoD personnel and facilities.

Ensure sufficient funding is available for travel to support the requirements of this program element.

**B. Accomplishments/Planned Programs (\$ in Millions)**

|  | FY 2010 | FY 2011 | FY 2012 |
|--|---------|---------|---------|
| <b>Title:</b> Nuclear Weapons Council (NWC) and Committee of Principals (CoP)<br><br><b>Description:</b> 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.<br><br><b>FY 2010 Accomplishments:</b><br>- Facilitated nuclear weapons complex site visits for individuals within the nuclear weapons community, including senior DoD/DOE officials.<br>- Prepared, staffed, and submitted 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.<br>- 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.<br><br><b>FY 2011 Plans:</b> | 0.910   | 1.278   | 0.683   |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Office of Secretary Of Defense  |   | <b>DATE:</b> February 2011                     |                |                |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i><br>BA 6: <i>RDT&amp;E Management Support</i>  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0605161D8Z: <i>Nuclear Matters</i> | <b>PROJECT</b><br>P161: <i>Nuclear Matters</i> |                |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   |   | <b>FY 2010</b>                                 | <b>FY 2011</b> | <b>FY 2012</b> |
| <p>- 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</p> <p><b>FY 2012 Plans:</b></p> <p>- 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</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 2010 Accomplishments:</b></p> <p>- Supported the Joint Steering Group Chairman and Joint Coordinating Group Membership for the Warhead Safety and Security Exchange Program</p> <p>- Conducted exchanges with the United Kingdom Ministry of Defense and atomic weapons complex organizations to support U.S. policy objectives</p> <p>- Supported the unclassified nuclear weapons related exchanges in support U.S. policy objectives in the NATO-Russia Council</p> <p>- Advised and supported the Nuclear Matters office review, analyze, advise and execute nuclear weapons related international treaties</p> <p><b>FY 2011 Plans:</b></p> <p>- Build upon FY 2010 initiatives.</p> <p>- Execute confidence building programs of cooperation with international partners.</p> <p>- Sponsor international partners at national-level nuclear weapons accident/incident exercises.</p> <p><b>FY 2012 Plans:</b></p> <p>- Execute confidence building programs of cooperation with international partners.</p> <p>- Sponsor international partners at national-level nuclear weapons accident/incident exercises.</p> |   | 0.390  | 0.451          | 0.320          |
| <b>Title:</b> Nuclear Surety  |   | 0.910  | 0.959          | 0.683          |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>  |  |   | <b>FY 2010</b>             | <b>FY 2011</b>                                 | <b>FY 2012</b> |
| <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 Department of Defense (DoD) nuclear surety program is provided by DATSD(NM).</p> <p><b>FY 2010 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- Oversaw the implementation of recommendations various boards, commissions, and panels regarding nuclear surety.</li> <li>- Completed the development of the physical security risk management tool.</li> <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 2011 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>- Continue to support 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>- Continue to 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>   |  |   | 1.456                      | 1.482  | 1.055          |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>  |   | <b>FY 2010</b>                                 | <b>FY 2011</b> |
| <p><b>FY 2010 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 and evaluate the review of warhead life extension refurbishments.</li> <li>- Maintained and exercised a nuclear enterprise model for DoD.</li> <li>- Supported new Task Forces for strategic systems.</li> <li>- Provided technical support to maintain strategic materials and nuclear power systems.</li> <li>- Conducted analysis of possible warhead replacements using modeling and simulation tools.</li> <li>- Developed an analytical tool for the evaluation of alternatives for the nuclear enterprise.</li> <li>- Developed a strategic communications strategy and plan for communicating stockpile options to stakeholders.</li> </ul> <p><b>FY 2011 Plans:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Continue to manage DoD RDT&amp;E activities for nuclear warheads to include B61, W76, W78, W80(0,1), B83, W87, W88 Weapons.</li> <li>- Continue to support studies for warhead replacement.</li> <li>- Continue programs to assess the future of the nuclear weapon stockpile.</li> <li>- Oversee the development of next-generation delivery systems.</li> <li>- Complete stockpile transformation plans.</li> <li>- Continue to support new Task Forces for strategic systems.</li> <li>- Continue to maintain and exercise a nuclear enterprise model for DoD.</li> <li>- Continue to provide technical support to maintain strategic materials and nuclear power systems.</li> <li>- Continue to develop a technical analytical capability for making critical decisions regarding the nuclear enterprise.</li> <li>- Continue to conduct 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>- 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.</li> <li>- Continue to manage DoD RDT&amp;E activities for nuclear warheads to include B61, W76, W78, W80(0,1), B83, W87, W88 Weapons.</li> </ul> |   |  |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   |   | <b>FY 2010</b>                                 | <b>FY 2011</b> |
| - Continue to support studies for warhead replacement.  |   |  |                |
| <b>Title:</b> Survivability and Weapons of Mass Destruction (WMD)   |   | 1.014  | 1.120          |
| <b>FY 2010 Accomplishments:</b> <ul style="list-style-type: none"> <li>- Provided Nuclear Defense Portfolio oversight.</li> <li>- Analyzed nuclear forensics and other nuclear defense activities to ensure they are in synch with broader interagency tasks.</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> <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> |   |  |                |
| <b>FY 2011 Plans:</b> <ul style="list-style-type: none"> <li>- Continue Nuclear Defense Portfolio oversight.</li> <li>- Continue planning and coordinating the activities of the National Nuclear Forensics Steering Committee and Working Group.</li> <li>- Continue to develop OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.</li> <li>- Continue to oversee the integration of all DoD nuclear defense capabilities in support of the Global Nuclear Defense Initiative.</li> <li>- Continue to oversee the acquisition strategy for DoD Combating Weapons of Mass Destruction requirements.</li> <li>- Continue to provide direction for DoD and OSD preparations to train for response actions, under DoDD 3150.8, "DoD Response to Radiological Accidents.</li> <li>- Continue to maintain the office Go-Kit and classified website to enhance coordination in the event of a nuclear weapon accident.</li> <li>- Continue to direct and coordinate the activities of the NCCS Committee of Principals Subcommittee on Nuclear Weapon Accident Response.</li> <li>- Continue to implement CBRN Survivability Policy and support the SOG.</li> <li>- Monitor and advise OSD on the status of DoD capability for Nuclear Weapons Effects Simulators and Simulation.</li> </ul>   |   |  |                |

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| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   |   | <b>FY 2010</b>                                 | <b>FY 2011</b> |
| <ul style="list-style-type: none"> <li>- Continue to support the DoD executive agency (ASD(Homeland Defense)) for interagency actions concerning Combating Weapons of Mass Destruction at home and abroad.</li> </ul> <b>FY 2012 Plans:</b> <ul style="list-style-type: none"> <li>- Continue Nuclear Defense Portfolio oversight.</li> <li>- Continue planning and coordinating the activities of the National Nuclear Forensics Steering Committee and Working Group.</li> <li>- Continue to develop OSD-wide approach to overseeing Global Nuclear Defense missions within DoD.</li> <li>- Continue to oversee the integration of all DoD nuclear defense capabilities in support of the Global Nuclear Defense Initiative.</li> </ul>   |   |  |                |
| <b>Title:</b> Nuclear Matters<br><br><b>FY 2010 Accomplishments:</b> <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 DoD Sigma 15 Approval Authority (Interface with DOE/NNSA).</li> <li>- Addressed Freedom of Information Act and Mandatory Declassification Requests.</li> <li>- Established a means to provide nuclear technical expertise to senior advisory groups.</li> <li>- Established a program to promote nuclear enterprise awareness and outreach.</li> <li>- Provided physical security RDT&amp;E project/program oversight</li> </ul> <b>FY 2011 Plans:</b> <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> <li>- Propose technical solutions to address nuclear capability gaps and warfighter requirements.</li> <li>- Provide physical security RDT&amp;E project/program oversight</li> </ul> <b>FY 2012 Plans:</b> <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> <li>- Propose technical solutions to address nuclear capability gaps and warfighter requirements.</li> <li>- Provide physical security RDT&amp;E project/program oversight</li> </ul> |   | 0.884  | 0.974          |
|   |   |  | 0.723          |
| <b>Accomplishments/Planned Programs Subtotals</b>   |   | 5.564  | 6.264          |
|   |   |  | 4.261          |

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| <b>C. Other Program Funding Summary (\$ in Millions)</b><br>N/A   |   |  |
| <b>D. Acquisition Strategy</b><br>N/A   |   |  |
| <b>E. Performance Metrics</b><br>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. |   |  |