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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)						Date: February 2005		
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 6					R-1 ITEM NOMENCLATURE Nuclear Matters-Physical Security, PE 0605161D8Z			
COST ( <i>In Millions</i> )	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	0.000	0.000	12.442	13.079	14.111	14.959	15.609	16.273
Nuclear Matters/P476	0.000	0.000	12.442	13.079	14.111	14.959	15.609	16.273

(U) **A. Mission Description and Budget Item Justification**

(U) **BRIEF DESCRIPTION OF ELEMENT**

(U) Effective October 1, 2005 funding for this program will move from PE 0605160D8Z (Counterproliferation Support) in Budget Activity 3 to PE 0605161D8Z (Nuclear Matters-Physical Security) in Budget Activity 6. The purpose of the program is to sustain the U.S. nuclear deterrent posture. The funds for this program are used to support studies and analyses for research, development, test and evaluation efforts for nuclear weapons security, use control, nuclear weapons stockpile safety, survivability and performance. 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. On July 19, 2004, this program incorporated additional responsibility for nuclear weapons physical security and Personnel Reliability Programs, to include policy development and implementation, and operations and oversight for the protection of nuclear weapons systems, DoD personnel and DoD facilities.

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)						Date: January 2005		
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COST ( <i>In Millions</i> )	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	0.000	0.000	12.442	13.079	14.111	14.959	15.609	16.273
Nuclear Matters/P476	0.000	0.000	12.442	13.079	14.111	14.959	15.609	16.273

(U) Project Number and Title: P476 Nuclear Matters

(U) PROGRAM ACCOMPLISHMENTS AND PLANS

(U) FY 2004 Accomplishments:

These accomplishments were reported under BA-3, PE 0605160D8Z, “Counterproliferation Support”

(U) FY 2005 Plans:

These accomplishments were reported under BA-3, PE 0605160D8Z, “Counterproliferation Support”

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(U) FY 2006 Plans:

(U) Nuclear Weapons Security, Use Control, and Safety (\$9.954 million)

- Conduct OSD oversight and provide directions for actions conducted under DoDD 3150.2 , DoDD 3150.2-M, "DoD Nuclear Weapons Safety Program, DoDD 4540.5 "Transportation of Nuclear Weapons"and DoDI S-5210.82, "Protection of Nuclear Coding Equipment," DoDD 5210.41 and 5210.41-M, "Physical Security of Nuclear Weapons.
- Complete the updating and documentation of DoD policy, responsibilities, and procedures in DoD publications to include DoDD S-3150.7, "Controlling the Use of Nuclear Weapons", DoDD 3150.3, "Nuclear Forces Security & Surety" and "DoDD 5210.42, "Nuclear Weapons PRP."
- Continue to conduct implementation activities stemming from approved recommendations of the assessment on Nuclear Force Protection.
- Continue 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".
- Continue as DoD Sigma 14/15 Approval Authority (Interface with DOE/NNSA).
- Action Freedom of Information Act and Mandatory Declassification Requests.
- As OSD sponsor, support the operations of the Joint Advisory Committee on Nuclear Weapons Surety (JAC).
- Continue the development of a Physical security equipment RDT&E program that supports the protection of tactical and fixed nuclear weapons, DoD personnel and their facilities.
- Continue the development of physical security equipment/systems that meet Services nuclear security requirements in the areas of Interior and Exterior Detection/Surveillance, Delay/Denial, Entry Control, Common Operating Picture, Tactical Systems and Airborne Intrusion.
- Initiate physical security equipment RDT&E projects that support the nuclear security requirements articulated in the Nuclear Weapons Physical Security Master Plan.

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(U) Stockpile Performance and Survivability (\$0.747 million)

- 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, W62, W80(0,1), W88 Weapons
- Implement DoD policy, responsibilities, and procedures in DoDD 3150.3. “Nuclear Weapons Security and Survivability” to include the actions of the Nuclear Forces Security and Survivability Steering Group.
- Support follow-up actions of the Defense Science Board (DSB) Task Force on Clandestine Nuclear Attack and the Task Force on Nuclear Weapons Effects Simulators/Simulation.
- Continue to support the DoD executive agency role for nuclear detectors for the Department of Homeland Security.

(U) Nuclear Weapons Council (\$0.373 million)

- 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.
- Prepare, staff, and submit annual reports to the President and the Congress to include the FY 2006-2014 Nuclear Weapons Stockpile Memorandum and Requirements Planning Document, FY 2006 report on Stockpile Assessment, FY 2006 Joint Surety Report and the FY 2006 NWC Report to Congress.
- Conduct a week-long trip to several nuclear weapons complex sites for over sixty individuals within the nuclear weapons community including senior DoD/DOE officials.

(U) Stockpile Transformation and Infrastructure (\$0.747 million)

- Supports the conduct of the next nuclear posture review.
- Continue programs to assess the future of the nuclear weapon stockpile
- Continue to support follow-on actions of the DSB Task Force on Strategic Strike Skills. Support new Task Forces in this functional area.
- Continue to develop and implement a Nuclear Matters knowledge system to help preserve nuclear weapons information for operational improvements and continuity.

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(U) Radiological and Nuclear Emergency Response (\$0.498 million)

- Conduct DoD oversight and provided direction for DoD preparations to train for response actions in the event of a nuclear weapon accident under DoDD 3150.8, “DoD Response to Radiological Accidents. Prepare and participate in exercise Diamond Knight, Dingo King and various interagency tabletop exercises.
- Participate in actions to update DoDD 3150.8, “DoD Response to Radiological Accidents”; DoD3150.8-M, Nuclear Accident Response Procedures” and DoDD 5110.63, "Security of Nuclear Reactors and Special Nuclear Material” to make them consistent with the National Response Plan.
- Maintain classified website to enhance coordination in the event of a nuclear weapon accident.
- Improve nuclear weapon accident planning through activities of the Nuclear Weapon Accident Response Steering Group.

(U) International Programs (\$0.124 million)

- Support and participated in NATO nuclear weapon policy and oversight groups to include the High Level Group (HLG) and the Joint Theatre Surety Management Group (JTSMG).
- Continue to implement DoDD 5030.14, "Disclosure of Atomic Information to Foreign Governments and Regional Defense Organizations."
- Continue to support and participate with the UK under 1957 Mutual Defense Agreement.
- Continue to support US-Russia Nuclear Warhead Safety and Security bilateral activities.
- Continued to support US-France Nuclear Warhead Safety and Security bilateral activities.

(U) FY 2007 Plans

(U) Nuclear Weapons Security, Use Control, and Safety (\$10.463 million)

- Conduct OSD oversight and provide directions for actions conducted under DoDD 3150.2 , DoDD 3150.2-M, "DoD Nuclear Weapons Safety Program, DoDD 4540.5, “Transportation of Nuclear Weapons” and DoDI S-5210.82, "Protection of Nuclear

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Coding Equipment," DoDD 5210.41 and 5210.41-M, "Physical Security of Nuclear Weapons DoDD S-3150.7, "Controlling the Use of Nuclear Weapons", DoDD 3150.3, "Nuclear Forces Security & Surety" and "DoDD 5210.42, "Nuclear Weapons PRP."

- Initiate the updating and documentation of DoD nuclear weapon policy, responsibilities, and procedures in DoD publications.
- Continue 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".
- Continue as DoD Sigma 14/15 Approval Authority (Interface with DOE/NNSA).
- Action Freedom of Information Act and Mandatory Declassification Requests.
- As OSD sponsor, support the operations of the Joint Advisory Committee on Nuclear Weapons Surety (JAC).
- Continue the development of a Physical security equipment RDT&E program that supports the protection of tactical and fixed nuclear weapons, DoD personnel and their facilities.
- Continue the development of physical security equipment/systems that meet Service's nuclear security requirements in the areas of Interior and Exterior Detection/Surveillance, Delay/Denial, Entry Control, Common Operating Picture, Tactical Systems and Airborne Intrusion.
- Continue physical security equipment RDT&E projects that support the nuclear security requirements articulated in the Nuclear Weapons Physical Security Master Plan.

(U) Stockpile Performance and Survivability (\$0.785 million)

- 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, W62, W80(0,1), W88 Weapons
- Implement DoD policy, responsibilities, and procedures in DoDD 3150.3. "Nuclear Weapons Security and Survivability" to include the actions of the Nuclear Forces Security and Survivability Steering Group.
- Continue to support the executive agency role of the DoD for nuclear detectors for the Department of Homeland Security.

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(U) Nuclear Weapons Council (\$0.392 million)

- 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.
- Prepare, staff, and submit annual reports to the President and the Congress to include the FY 2006-2014 Nuclear Weapons Stockpile Memorandum and Requirements Planning Document, FY 2006 report on Stockpile Assessment, FY 2006 Joint Surety Report and the FY 2006 NWC Report to Congress
- Conduct a week-long trip to several nuclear weapons complex sites for over sixty individuals within the nuclear weapons community including senior DoD/DOE officials.

(U) Stockpile Transformation and Infrastructure (\$0.785 million)

- Support studies for warhead replacement.
- Continue programs to assess the future of the nuclear weapon stockpile
- Continue to develop and implement a Nuclear Matters knowledge system to help preserve nuclear weapons information for operational improvements and continuity.

(U) Radiological and Nuclear Emergency Response (\$0.523 million)

- Conduct DoD oversight and provided direction for DoD preparations to train for response actions in the event of a nuclear weapon accident under DoDD 3150.8, "DoD Response to Radiological Accidents. Prepare and participate in exercise Diligent Warrior 07 and various interagency exercises.
- Maintain classified website to enhance coordination in the event of a nuclear weapon accident.
- Improve nuclear weapon accident planning through activities of the Nuclear Weapon Accident Response Steering Group

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(U) International Programs (\$0.131 million)

- Support and participated in NATO nuclear weapon policy and oversight groups to include the High Level Group (HLG) and the Joint Theatre Surety Management Group (JTSMG)
- Continue to implement DoDD 5030.14, "Disclosure of Atomic Information to Foreign Governments and Regional Defense Organizations"
- Continue to support and participate with the UK under 1957 Mutual Defense Agreement
- Continue to support US-Russia Nuclear Warhead Safety and Security bilateral activities
- Continued to support US-France Nuclear Warhead Safety and Security bilateral activities

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<b>(U) B. <u>Program Change Summary</u></b>	<b><u>FY 2004</u></b>	<b><u>FY 2005</u></b>	<b><u>FY 2006</u></b>	<b><u>FY 2007</u></b>
Previous President's Budget	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	12.442	13.079
Total Adjustments			12.442	13.079
Congressional program reductions				
Congressional rescissions				
Congressional increases				
Reprogrammings				
SBIR/STTR Transfer				
Programmatic Transfer from BA 3			12.442	13.079

Change Summary Explanation:

(U) Funding

Effective October 1, 2006 funding for this program moved from PE 0605160D8Z (Counterproliferation Support) Budget Activity 3 to PE 06051618Z (Nuclear Matters-Physical Security) in Budget Activity 6.

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(U) **C. Other Program Funding Summary**

(U) NA

(U) **D. Execution**

(U) For execution year (CY), provide a list of funding recipients within the following categories:

Labs/centers

Universities

FFRDC's

Contractors Science Applications International Corporation, URS Corporation

(U) List only those entities receiving 10% or more of total funding available in the PE.

(U) **E. Performance Metrics**

The outcome goals for the Nuclear Matters-Physical Security program are the prevention of nuclear war, prevention of unauthorized use of a nuclear weapon and the provision of quality support to the Secretary of Defense in the event of a nuclear weapons accident. To that end, one Nuclear Matters output goal is to deliver the *FY 2005-2013 Nuclear Weapons Stockpile Memorandum and Requirements Planning Document, FY 2005 report on Stockpile Assessment, FY 2005 Joint Surety Report and the FY 2005 NWC Report to Congress* to the President and the Congress providing them with information needed to make policy and provide funding to maintain a safe, secure and reliable nuclear weapons stockpile. Other output goals include; maintaining currency of nuclear weapons safety, use control and security publications including DoD directives and instructions; promoting coordination between DOE and DoD nuclear weapons activities by conducting the required number of NWC meetings in accordance with 10 USC section 179; participating or leading at least one nuclear weapons accident exercise per year and updating nuclear weapons accident associated publications based on lessons learned; increasing nuclear weapons safety and security in the United States and other countries by supporting assured denial oriented research and development, participating in a variety of international meetings, information exchanges and exercises.