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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE JUNE 2001	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 3							R-1 ITEM NOMENCLATURE Nuclear Matters PE 0605160D8Z			
COST (In Millions)	FY2000	FY2001	FY2002						Cost to Complete	Total Cost
Total Program Element (PE) Cost	1.442	1.470	1.781						Continuing	Continuing
Nuclear Matters/P476	1.442	1.470	1.781						Continuing	Continuing

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

(U) **BRIEF DESCRIPTION OF ELEMENT**

(U) The U.S. nuclear deterrent posture is the most visible and critical element of how U.S. military capabilities can be used to deter aggression and coercion. Therefore, nuclear weapons must receive special consideration within the Office of the Secretary of Defense because of their political and military importance, destructive power, and the potential consequences of an accident or unauthorized act. Consequently, senior level officials place the highest attention and priority to actioning nuclear weapons issues. The Nuclear Matters Program provides technical assessments and policy recommendations to the Under Secretary of Defense for Acquisition, Technology and Logistics and senior OSD leadership on complex and demanding issues that underpin our National Strategic Policy of nuclear deterrence and especially those pertaining to the sustainment of the nuclear weapons stockpile. The Office of the Deputy Assistant Secretary for Nuclear Matters executes actions in collaboration and coordination with the National Security Council, Office of the Undersecretary of Defense for Policy, the Joint Staff, the Military Services, U.S. Strategic Command, U.S European Command, the Department of Energy and the National Nuclear Security Administration, the Congress, NATO, and foreign governments to provide guidance for - and oversight of - a wide variety of nuclear weapons activities. For these activities, the program provides analysis and assessments of issues associated with the stockpile size and composition, safety, reliability, security, use control, survivability, transportation, command and control, maintenance, storage, emergency response, and sustainability of the enduring stockpile.

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(U) **Project Number and Title: P476 Nuclear Matters**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY 2000 Accomplishments:**

U) Recurring Obligations: Performed assessments that provided the technical and policy basis for the successful preparation and submittal of the annual Requirements and Planning Document for the Secretaries of Defense and Energy, the annual Nuclear Weapons Stockpile Memorandum to the President, the Nuclear Weapons Council (NWC) Chairman's Annual Report to Congress, the DoD-DOE Annual Surety Report to the President, and the Annual Certification Report to the President. These products provided the basis for technical policy recommendations to the President, Secretary of Defense, Secretary of Energy, and Chairman of the NWC on key nuclear weapon issues. Successfully prepared and conducted inter-departmental coordination and sent the annual Nuclear Weapons Deployment Request to the President and the Annual Performance Report to the NSC. Coordinated Facilitated the activities of senior level groups, such as the Congressionally directed Panel to Assess the Safety, Reliability, and Security of the United States Nuclear Stockpile. Continued to act as the OSD sponsor for the Joint Advisory Committee on Nuclear Weapons Surety (JAC) and executed a renewal of its charter. (\$ 0.660 million)

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(U) Nuclear Weapons Council (NWC) Support: Managed the operations of the Joint DoD-DOE Nuclear Weapons Council (NWC) and the NWC Standing and Safety Committee and the Nuclear Weapons Requirements Planning Groups through the most intense activity period of their existence. Conducted analyses to identify technical issues which then provided the basis for NWC decisions on the evolution of the nuclear weapons complex and infrastructure. Developed and distributed Nuclear Weapons Council Handbook. Developed NWC Revitalization Report and provided to Congress in accordance with FY2000 Defense Authorization Act. Developed and promulgated the NWC Procedural Guideline for the Phase 6.X Process delineating NWC, DoD and DOE roles and functions for nuclear weapon refurbishment activities. (\$ 0.400 million)

(U) Maintaining the Infrastructure for the Deterrent: Evaluated the DOE 30-Day Review of the Stockpile Stewardship Program. Performed analyses on topics for sustaining nuclear weapons safety, use control, survivability, certification, transportation, and reliability. These efforts supported DoD oversight of DOE stockpile stewardship activities, such as nuclear weapon sustainment and revalidation, tritium production technology issues and infrastructure requirements, nuclear weapon life extension, and stockpile stewardship and maintenance. Sponsored JAC assessment on Joint DoD/DOE Requirements for Warhead Refurbishment. Developed Electromagnetic Pulse (EMP) Report in response to FY1999 National Defense Authorization Act. Updated emergency response Go Kit and conducted accident response staff exercises. Executed MOA to ensure availability of health physics expertise in the event of a nuclear accident. Sponsored Defense Science Board study on Nuclear Simulation that provided recommendations on operational, research and management aspects of Defense Threat Reduction Agency nuclear simulation program. Developed Nuclear Skills Retention Plan in response to FY2000 National Defense Authorization Act. Performed OSD coordination on the DOE Stockpile Stewardship Plan for nuclear weapons sustainment. Provided OSD oversight for the development of the Nuclear Mission Management Plan (NMMP). Initiated Development of a Nuclear Weapons Life Cycle Handbook to sustain core expertise. Initiated actions to update DoD Directive 3150.1, Joint Nuclear Weapons Development Studies and Engineering Projects and DoD Instruction 5030.55, Joint AEC-DoD Nuclear Weapons Development Procedures. (\$ 0.513 million)

(U) Policy Support and Guidance for International Obligations: Oversight and guidance was provided to activities and organizations, such as the NATO High Level Group, the Joint Theater Surety Management Group, and Congressionally approved technical exchanges with foreign nations. In particular conducted meetings in accordance with the Agreement between the Government of the United States of America and the Government of the Russian Federation on the Exchange of Technical Information in the Field of Nuclear Warhead Safety and Security also known as the Warhead Safety and Security Exchange Agreement (WSSX). Conducted

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annual U.S./U.K. bi-lateral STOCKTAKE activity. Conducted U.S./France technology exchanges for developing mutual understanding of safety and security issues for nuclear weapons for (\$ 0.169 million)

(U) FY 2001 Plans:

(U) Recurring Obligations: Analyses and assessments will provide basis for preparation of the annual Nuclear Weapons Stockpile Memorandum to the President, the Requirements and Planning Document, the Nuclear Weapons Council (NWC) Chairman's Annual Report to Congress, the DoD-DOE Annual Surety Report to the President, and the Annual Certification Report to the President. These products will provide the basis for technical policy recommendations to the President, Secretary of Defense, Secretary of Energy, and Chairman of the NWC on key nuclear weapon issues. Analyses will be produced in preparation for the annual Nuclear Weapons Deployment Request to the President. The final year of the Congressionally directed Panel to Assess the Safety, Reliability, and Security of the United States Nuclear Stockpile will be facilitated. Continue as the OSD sponsor for the Joint Advisory Committee on Nuclear Weapons Surety (JAC). (\$ 0.560 million)

(U) Nuclear Weapons Council : Manage the operations of the Joint DoD-DOE Nuclear Weapons Council (NWC) and the NWC Standing and Safety Committee and the Nuclear Weapons Requirements Planning Groups. Analyses and assessments on technical issues will be produced for the NWC members and staff concerning the evolution of the nuclear weapons complex and infrastructure. These analyses will facilitate decisions on the refurbishment of specific weapon systems and develop agenda items for the NWC. Update the NWC Procedural Guideline for the Phase 6.X Process delineating NWC, DoD and DOE roles and functions for nuclear weapon refurbishment activities. (\$ 0.320 million)

(U) DoD-NNSA Nuclear Weapons Requirements Process: Provide for contractor Requirements Team to implement the joint DoD-NNSA Requirements Process to integrate and prioritize the requirements of both DoD and NNSA. Process includes the development and maintenance of a requirements database, quantities and schedules, the conduct of tradeoff assessments, and the development of a joint DoD-DOE/NNSA Prioritized Requirements Delivery Plan. A re-programming covering a portion of the yearly cost is anticipated for FY01 (\$0.000 million).

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(U) Maintaining the Deterrent Infrastructure: Analyses will be provided on topics for sustaining nuclear weapons safety, use control, survivability, emergency response, certification, transportation, and reliability. These efforts support DoD oversight of DOE stockpile stewardship activities, such as nuclear weapon sustainment and revalidation, technology issues and infrastructure requirements, nuclear weapon life extension, and stockpile stewardship and maintenance. Provide OSD oversight for the development of the second edition of the Nuclear Mission Management Plan (NMMP). Sponsor JAC assessment on DoD/DOE Physical Security of Nuclear Weapons. Conduct accident response staff exercises. Initiate update of DoD-DOE nuclear weapon related MOAs/MOUs with emphasis on the 1953 Agreement for the Development, Production, and Standardization of Atomic Weapons. Publish Nuclear Weapons Life Cycle Handbook to sustain core expertise. Complete and publish update to DoD Directive 3150.1, Joint Nuclear Weapons Development Studies and Engineering Projects and DoD Instruction 5030.55, Joint AEC-DoD Nuclear Weapons Development Procedures. (\$ 0.421 million)

(U) Policy and Guidance for International Obligations: Oversight and guidance will be provided to activities and organizations, such as the NATO High Level Group, the Joint Theater Surety Management Group, and Congressionally approved technical exchanges with foreign nations such as WSSX and STOCKTAKE. Visit NATO nuclear capable units and report on status to raise awareness of surety issues to NATO. Plan exercises for developing mutual understanding of issues for the safety and security of nuclear weapons for U.S./France technology exchanges. (\$ 0.169 million)

(U) FY 2002 Plans:

(U) Recurring Obligations: Analyses and assessments will provide basis for preparation of the annual Nuclear Weapons Stockpile Memorandum to the President, the Requirements and Planning Document, the Nuclear Weapons Council (NWC) Chairman's Annual Report to Congress, the DoD-DOE Annual Surety Report to the President, and the Annual Certification Report to the President. These products will provide the basis for technical policy recommendations to the President, Secretary of Defense, Secretary of Energy, and Chairman of the NWC on key nuclear weapon issues. Analyses will be produced in preparation for the annual Nuclear Weapons Deployment Request to the President. Continue as the OSD sponsor for the Joint Advisory Committee on Nuclear Weapons Surety (JAC). (\$ 0.560 million)

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(U) Nuclear Weapons Council: Manage the operations of the Joint DoD-DOE Nuclear Weapons Council (NWC) and the NWC Standing and Safety Committee and the Nuclear Weapons Requirements Planning Groups. Analyses and assessments on technical issues will be produced for the NWC members and staff concerning the evolution of the nuclear weapons complex and infrastructure. These analyses will facilitate decisions on the refurbishment of specific weapon systems and the development of agenda items for the NWC. (\$ 0.322 million)

(U) DoD-NNSA Nuclear Weapons Requirements Process: Provide for contractor Requirements Team to implement the joint DoD-NNSA Requirements Process to integrate and prioritize the requirements of both DoD and NNSA. Process includes the development and maintenance of a requirements database, quantities and schedules, the conduct of tradeoff assessments, and the development of a joint DoD-DOE/NNSA Prioritized Requirements Delivery Plan. To meet the \$0.600 million yearly funding requirement, a reprogramming of an additional \$0.300 million is necessary for FY2002 per Memorandum, DDR&E, Subject: Research & Development (R&D) Funding Transfer, December 12, 2000. (\$0.300 million).

(U) Maintaining the Deterrent Infrastructure: Manage implementation of Presidential initiatives on stockpile composition and quantities. Perform analyses on issues for sustaining nuclear weapons safety, use control, survivability, certification, transportation, and reliability. These efforts support DoD oversight of DOE stockpile stewardship activities, such as nuclear weapon sustainment and revalidation, infrastructure requirements, nuclear weapon life extension, and stockpile stewardship and maintenance. Update handbooks on Nuclear Weapons Surety and Stockpile Management Information. Complete update of the 1953 Agreement for the Development, Production, and Standardization of Atomic Weapons. (\$ 0.430 million)

(U) Policy and Guidance for International Obligations: Oversight and guidance will be provided to activities and organizations, such as the NATO High Level Group, the Joint Theater Surety Management Group, and Congressionally approved technical exchanges with foreign nations such as WSSX and STOCKTAKE. Visit NATO nuclear capable units and report on status to raise awareness of surety issues to NATO. Plan exercises for developing mutual understanding of issues for the safety and security of nuclear weapons for U.S./France technology exchanges. Initiate update of DoD Directive 5030.14 to affirm responsibilities of Joint Atomic Information Exchange Group (JAIEG) (\$ 0.169 million)

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(U) B. Program Change Summary	<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>	<u>Total Cost</u>
Previous President's Budget Submit	1.486	1.473	1.471				Continuing
Appropriated Value		1.483					Continuing
Adjustments to Appropriated Value							
a. Congressionally Directed Undistributed Reduction	-0.044	-0.013	0.000				
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment	0.000	0.000	0.000				
c. Other	0.000	0.000	0.310				
Current President's Budget	1.442	1.470	1.781				Continuing

Change Summary Explanation

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(U) **Funding:** When the Nuclear Matters funding line was created in FY1997 for the Office of the Deputy Assistant Secretary for Nuclear Matters within the Office of Assistant Secretary of Defense for Nuclear and Chemical and Biological Defense Programs (ATSD(NCB), it was placed for administrative purposes under a Counterproliferation Program program element already existing under the ATSD(NCB). Through the Defense Reform Initiative (DRI), the Counterproliferation Program and its program element were moved to the Defense Threat Reduction Agency, while the Office of Nuclear Matters was moved to the Director, Defense Research and Engineering. As a result, funds for Nuclear Matters were transferred from PE0605160D8Z to PE0605160BR in FY1999. Under an agreement with Washington Headquarters Services, these funds were transferred to PE065160D8Z in OSD in FY2000 to continue the efforts of the Nuclear Matters Program. A mid-year reprogramming was accomplished in FY 2000 to initiate the DoD-NNSA Nuclear Weapons Requirement Process. A re-programming of an additional resources for this effort is anticipated for FY01. Increases in FY 2002 were the result of programmatic adjustments and a reprogramming of an additional \$0.300 million is still necessary for FY2002 per Memorandum, DDR&E, Subject: Research & Development (R&D) Funding Transfer, December 12, 2000.

(U) **Schedule:** N/A

(U) **Technical:** N/A

(U) **C. Other Program Funding Summary Cost** N/A

(U) **D. Acquisition Strategy:** N/A

(U) **E. Schedule Profile:** N/A

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