

Exhibit R-2a, RDT&E Project Justification							Date: January 2002	
Appropriation/Budget Activity RDT&E. BA 3				Project Name and Number Nuclear Matters/P476				
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY2006	FY2007	FY2008	FY 2009
Nuclear Matters/P476	1.764	1.729	1.882	1.960	2.020	2.055	2.358	2.406
RDT&E Articles Quantity	N/A							

A. Mission Description and Budget Item Justification:

(U) The U.S. nuclear deterrent posture is the most visible and critical element of U.S. military capabilities used to deter aggression and coercion. Therefore, nuclear weapons receive special consideration within the Office of the Secretary of Defense because of this political and military importance and because of the destructive power of a nuclear weapon and the potential consequences of an accident or unauthorized act. The Nuclear Matters Program provides the capability to conduct technical assessments and to develop policy recommendations for complex and vital national issues. The Nuclear Matters 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 enduring stockpile sustainability.

B. Accomplishments/Planned Program

	FY 2002	FY 2003	FY2004	FY 2005
Analysis and Assessments	.543	.536	.583	.608

Analyses and assessments are performed each year and provide the basis for preparation of the Nuclear Weapons Stockpile Memorandum (NWSM) to the President, the Requirements Planning document (RPD), 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 technical policy recommendations to the President, Secretary of Defense, Secretary of Energy, and the Chairman of the NWC on key nuclear weapon issues.

The actions of the Congressionally directed Panel to Assess the Safety, Reliability, and Security of the United States Nuclear Stockpile were facilitated leading to key policy and technical recommendations. Analyses are produced in preparation for the annual Nuclear Weapons Deployment Request to the President. The Office of Nuclear Matters, under its responsibilities as OSD sponsor, sustains the continuing contributions of the Joint Advisory Committee on Nuclear Weapons Surety (JAC).

	FY 2002	FY 2003	FY2004	FY 2005
Nuclear Weapons Council	.322	.311	.339	.353

Manage the operations of the Joint DoD-DOE Nuclear Weapons Council (NWC), as directed by law, and the activities of the supporting NWC Staff, the NWC Standing and Safety Committee (NWCSSC), the Compartmented Advisory Committee (CAC). Conduct research and frame technical issues for the NWC members and staff concerning the evolution of the nuclear weapons complex and infrastructure particularly in view of the Presidential decision to resize the strategic stockpile. Activities of weapon system Project Officer Groups (POG) are continuously monitored.

Conducted assessment of DoD and NNSA site security and transportation improvements in response to the September 11, 2001, terrorist attack. Facilitated decision to proceed in FY2003 with Phase 6.2 and 6.2A on Robust Nuclear Earth Penetrator (RNEP) program. Phases 6.3-6.6 will be conducted in future budget years. Conducted assessment to identify trends in stockpile confidence and reliability for the period 1996-2001. Conducted survey of Memoranda of Agreement between the DOE and DoD and developed

current listing identifying those agreements requiring update. Conducted reviews of nuclear testing readiness and tritium production readiness.

Life extension programs for the enduring stockpile will be closely managed into the successive refurbishment phases to sustain the viability of the nuclear stockpile through the budget years. Update actions will be initiated for selected MOUs in FY2003, FY2004, and FY2005. The recommendations of the Federal Advisory Committee on the End-to-End Review on Nuclear Command and Control, and the Panel to Assess the Safety, Reliability, and Security of the United States Nuclear Stockpile are planned for implementation in FY2003, FY2004 and FY2005.

	FY 2002	FY 2003	FY2004	FY 2005
DoD-NNSA Nuclear Weapons Requirements Process	.300	.294	.320	.333

Provides contractor Requirements Team to conduct the joint DoD-NNSA Requirements Process to integrate and prioritize the nuclear weapons-related requirements for both DoD and the National Nuclear Security Administration (NNSA) to support key decisions in the implementation of the 2001 Nuclear Posture Review. Process includes the development and maintenance of a requirements database, quantities and schedules, the conduct of tradeoff assessments, and the development/update of the Joint DoD-NNSA Nuclear Weapon-Related Requirements List (JNWRRL) and the First Production Unit (FPU) Milestones Chart of critical stockpile activities for measuring DoD/NNSA performance through the budget years.

Materials were developed and presented to the Congressionally mandated Foster Panel to report the status of the requirements process and to identify requirements-related issues. A senior level DoD/NNSA in process review of the requirements process was conducted to further enhance DoD/NNSA communication, coordination, and to identify the path forward for FY03 and beyond.

Requirements-related issues regarding implementation of the 2001 Nuclear Posture Review and the Moscow Treaty on the reduction of warheads will also be evaluated and addressed in FY 2003, FY2004 and FY2005. Major changes in a NNSA schedule for a warhead life extension will be assessed for its impact on the overall requirements reflected in the JNWRRL when necessary.

This subproject experienced a 50 percent shortfall at its inception from the \$0.600 million requirement, which was initially remedied by reprogramming actions in FY01, FY02, and FY03. A POM Issue Paper addressing this shortfall submitted for the FY04-09 POM review was not considered and the shortfall remains unremedied.

	FY 2002	FY 2003	FY2004	FY 2005
Maintaining the Deterrent Infrastructure	.430	.415	.452	.470

Manage implementation of Presidential initiatives on stockpile composition and quantities. Conduct assessments for the ATSD (NCB). Analyses are conducted on 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.

Completed update to DoD Directive 3150.1, Joint Nuclear Weapons Life Cycle Activities. Updated Nuclear Matters Executive Overview to sustain core expertise. Initiated update to DoD Directive 3150.3, Nuclear Forces Security and Survivability. Conduct two nuclear weapon accident response staff exercises in each budget year and identify relationships between homeland defense and

nuclear accident response.

Update handbooks in FY2003 on Nuclear Weapons Surety, Stockpile Management Information, and the Nuclear Weapons Council to sustain core expertise. Provide OSD oversight for the development of the next edition of the Nuclear Mission Management Plan (NMMP) for the sustainment of DoD nuclear weapon delivery systems and its harmonization with the NNSA Stockpile Stewardship Plan.

	FY 2002	FY 2003	FY2004	FY 2005
Policy and Guidance for International Obligations	.169	.173	.188	.196

Provided oversight and guidance to activities and organizations, such as the NATO High Level Group (HLG), the Joint (SHAPE/EUCOM) Theater Surety Management Group (JTSMG), and technical exchanges with foreign nations under government-to-government agreements, such as WSSX (Russia) and STOCKTAKE (UK).

WSSX activities included technical exchange meetings in the United States and Russia, a program management meeting in Moscow, preparations for a technical exchange at Picatinny Arsenal, NJ (FY2003), coordination of U.S. proposals for projects, the continuing development of a master projects list, and completion and maintenance of a U.S Procedures Document.

In FY2003, and beyond, reviews of U.S. and Russian proposed projects relating to nuclear weapons safety and security and nuclear counterterrorism will be conducted and lists maintained of WSSX activities and approved WSSX project proposals. A update of the overall WSSX agreement to potentially include counterterrorism, chemical, and biological issues will be conducted in FY2003. Visits to NATO nuclear capable units will occur each budget year and reports on status to raise awareness of surety issues will be presented to the NATO HLG. Conduct planning (FY2003 and FY2004) for exercises for developing mutual understanding of issues for the safety and security of nuclear weapons for U.S./France technology exchanges. Initiate update in FY2004 of DoD Directive 5030.14 to affirm responsibilities of Joint Atomic Information Exchange Group (JAIEG).

C. Other Program Funding Summary: N/A

D. Acquisition Strategy: N/A

E. Major Performers:

SAIC—Sciences Applications International Corporation, 1710 SAIC Drive, McLean, VA 222102, 703-676-4300
Supports DoD critical nuclear missions and requirements through technical assessments and documentation.

Awarded: August 14, 2001

Funding: is about 60 percent of PE, or about \$1 million per year