

| ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit) | | | | | | | February 2006 | | |
|--|------------------|------------------|---|------------------|------------------|------------------|------------------|-----------------------|------------|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | | PE NUMBER AND TITLE 0604870A - Nuclear Arms Control Monitoring Sensor Network | | | | | PROJECT SE1 | |
| COST (In Thousands) | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | Cost to Complete | Total Cost |
| SE1 NACT SENSOR ENGINEERING | 0 | 0 | 7428 | 0 | 0 | 0 | 0 | 0 | 7428 |
| <p>A. Mission Description and Budget Item Justification: This project provides Research, Development, Testing & Evaluation (RDT&E) to meet technology requirements in support of implementation, compliance, monitoring and inspection for existing and emerging nuclear arms control activities and dual use technology for missile defense integration activities. The project addresses requirements validated by the Office of the Under Secretary of Defense, Acquisition, Technology & Logistics (OUSD AT&L). This project conforms to the administration's research and development priorities as related to Weapons of Mass Destruction (WMD) arms control and disarmament. Technical assessments are made to provide the basis for sound project development, evaluate existing programs and provide the data required to make compliance judgments and support US policy, decision-makers and negotiating teams. Technology developments and system improvement projects are conducted to ensure that capabilities for monitoring systems are available when required.</p> <p>Primary emphasis is on improved sensor capabilities and improved detection and assessment capabilities against a wide range of threat origins.</p> <p>The program includes development of equipment and procedures for data exchanges, inspections and monitoring capability and analysis. The technologies and procedures developed in the arms control technology program provide an invaluable source of information on equipment and procedures that is extensively used by US and international agencies. This project also supports the warfighting capability area of combating Weapons of Mass Destruction (WMD).</p> <p>The Department of Defense transferred the Nuclear Arms Control Technology Program from the Defense Threat Reduction Agency (DTRA) to the Army under PBD 289 to be executed by the US Army Space and Missile Defense Command. For FY04 the RDT&E funding request was placed in PE 0603782A Warfighter Information Network-Tactical-Dem/Val under Project F98 Nuclear Arms Control Tech-Sensor & Network Monitoring. For FY05 and FY06 the funding request was placed in PE 0604805A Command, Control, Communications Systems-Eng Dev under Project F99 Nuclear Arms Control Technology-Sensor Network Monitoring. Congress directed the Secretary of Defense to create a stand alone PE for this effort - not a new start. PE 0604870A is the new PE.</p> | | | | | | | | | |
| Accomplishments/Planned Program | | | | | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> | | |
| Conduct analyses as required to support the OSD treaty manager. | | | | | 0 | 0 | 450 | | |
| Continue development of a prototype sensor. | | | | | 0 | 0 | 1400 | | |
| Continue development of radionuclide particle and noble gas detectors | | | | | 0 | 0 | 200 | | |
| Continue Information management systems enhancements | | | | | 0 | 0 | 1300 | | |
| Continue the R&D support system | | | | | 0 | 0 | 600 | | |
| Continue on-location research of calibration for infrasound events | | | | | 0 | 0 | 128 | | |
| Continue development of techniques to identify signals from sensor systems | | | | | 0 | 0 | 1900 | | |
| Continue development of nuclear detection and measurement systems | | | | | 0 | 0 | 1450 | | |
| Total | | | | | 0 | 0 | 7428 | | |

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| <u>B. Program Change Summary</u> | FY 2005 | FY 2006 | FY 2007 | |
| Previous President's Budget (FY 2006) | 0 | 0 | 0 | |
| Current BES/President's Budget (FY 2007) | 0 | 0 | 7428 | |
| Total Adjustments | 0 | 0 | 7428 | |
| Congressional Program Reductions | | | | |
| Congressional Rescissions | | | | |
| Congressional Increases | | | | |
| Reprogrammings | | | | |
| SBIR/STTR Transfer | | | | |
| Adjustments to Budget Years | | | 7428 | |
| Change Summary Explanation: Funding - FY 2007: This project is not a new start. It has transitioned from PE 0604805A Project F99 in FY06 to PE 0604870A - Nuclear Arms Control Monitoring Sensor Network in FY07. | | | | |
| <u>D. Acquisition Strategy</u> Not applicable for this item. | | | | |

| ARMY RDT&E COST ANALYSIS (R3) | | | | | | | | | | February 2006 | | |
|---|------------------------|--------------------------------|--|--------------|--------------------|--------------|--------------------|--------------|--------------------|------------------|------------|--------------------------|
| BUDGET ACTIVITY | | | PE NUMBER AND TITLE | | | | | | | PROJECT | | |
| 5 - System Development and Demonstration | | | 0604870A - Nuclear Arms Control Monitoring Sensor Network | | | | | | | SE1 | | |
| I. Product Development | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Product Development | Various | MS, HI | 0 | 0 | | 0 | | 1731 | 1-3Q | 0 | 1731 | 0 |
| Subtotal: | | | 0 | 0 | | 0 | | 1731 | | 0 | 1731 | 0 |
| | | | | | | | | | | | | |
| II. Support Costs | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Monitoring Sensor Systems, Program Data Analysis, Verification Systems Concept Demo | Various | SAIC, General Dynamics, VA | 0 | 0 | | 0 | | 2697 | 1-4Q | 0 | 2697 | 0 |
| Support Contracts & Government Support | Various | FL, NM, VA, AL | 0 | 0 | | 0 | | 1500 | 1-4Q | 0 | 1500 | 0 |
| SMDC Support | Various | Huntsville, AL | 0 | 0 | | 0 | | 500 | 1-4Q | 0 | 500 | 0 |
| Subtotal: | | | 0 | 0 | | 0 | | 4697 | | 0 | 4697 | 0 |
| | | | | | | | | | | | | |
| III. Test And Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| Test and Evaluation | Various | Huntsville, AL | 0 | 0 | | 0 | | 500 | 2-3Q | 0 | 500 | 0 |
| Subtotal: | | | 0 | 0 | | 0 | | 500 | | 0 | 500 | 0 |
| | | | | | | | | | | | | |
| IV. Management Services | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Cost To Complete | Total Cost | Target Value of Contract |
| SMDC Support | Various | Huntsville, AL | 0 | 0 | | 0 | | 500 | 1-4Q | 0 | 500 | 0 |
| | | | | | | | | | | | | |

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|---|--|--|---|--|---|--|---------------|----------------|---|
| BUDGET ACTIVITY 5 - System Development and Demonstration | | PE NUMBER AND TITLE 0604870A - Nuclear Arms Control Monitoring Sensor Network | | | | | | PROJECT SE1 | |
| Subtotal: | | 0 | 0 | | 0 | | 500 | | 0 |
| | | | | | | | | | |
| Project Total Cost: | | 0 | 0 | | 0 | | 7428 | | 0 |
| | | | | | | | | | |

[illegible]

| Schedule Detail (R4a Exhibit) | | | | | | February 2006 | |
|--|----------------|----------------|---|----------------|----------------|----------------|-----------------------|
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| <u>Schedule Detail</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> | <u>FY 2011</u> |
| Conduct experiments and calibrations for seismic, hydroacoustic, infrasound, and radionuclide sensor | | | 1-4Q | | | | |
| Baseline system software and analytical tools for event detection and identification | | | 1-4Q | | | | |
| Develop a prototype sensor | | | 1-4Q | | | | |
| Information management systems enhancements | | | 1-4Q | | | | |
| | | | | | | | |