

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT	
5 - System Development and Demonstration			0604870A - Nuclear Arms Control Monitoring Sensor Network							SE1	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost	
SE1 NACT SENSOR ENGINEERING		7346	7300	7300						21946	

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.

Primary emphasis is on improved sensor capabilities and improved detection and assessment capabilities against a wide range of threat origins.

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).

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.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Conduct analyses as required to support the OSD treaty manager.		450	500	500
Continue development of a prototype sensor.		1400	1300	1200
Continue development of radionuclide particle and noble gas detectors		200	325	400
Continue Information management systems enhancements		1300	1200	1200
Continue the R&D support system		600	700	700
Continue on-location research of calibration for infrasound events		128	350	400
Continue development of techniques to identify signals from sensor systems		1611	1500	1500

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Continue development of nuclear detection and measurement systems		1450	1425	1400
Small Business Innovative Research/Small Business Technology Transfer Programs		207		
Total		7346	7300	7300

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BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604870A - Nuclear Arms Control Monitoring Sensor Network	PROJECT SE1
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<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)		7428		
Current BES/President's Budget (FY 2008/2009)		7346	7300	7300
Total Adjustments		-82	7300	7300
Congressional Program Reductions		-28		
Congressional Rescissions				
Congressional Increases				
Reprogrammings		-54		
SBIR/STTR Transfer				
Adjustments to Budget Years			7300	7300

Change Summary Explanation: FY 2008 and FY 2009 funding restored to continue research and development of nuclear arms control monitoring technology.

C. Other Program Funding Summary Not applicable for this item.

D. Acquisition Strategy Not applicable for this item.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

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 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Product Development	Various	MS, VA				1731	1-3Q	2428	1-3Q	2400	1-3Q		6559	
Subtotal:						1731		2428		2400			6559	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 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				2615	1-4Q	2160	1-4Q	2100	1-4Q		6875	
Support Contracts & Government Support	Various	FL, NM, VA, AL				1500	1-4Q	1212	1-4Q	1300	1-4Q		4012	
SMDC Support	Various	Huntsville, AL				500	1-4Q	500	1-4Q	500	1-4Q		1500	
Subtotal:						4615		3872		3900			12387	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	Huntsville, AL				500	2-3Q	500	2-3Q	500	2-3Q		1500	
Subtotal:						500		500		500			1500	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SMDC Support	Various	Huntsville, AL				500	1-4Q	500	1-4Q	500	1-4Q		1500	

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Subtotal:				500		500		500		1500
Project Total Cost:				7346		7300		7300		21946

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

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PROJECT
SE1

Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
NACT Technology Development																																

Schedule Detail (R4a Exhibit)

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PROJECT
SE1

<u>Schedule Detail</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>	<u>FY 2012</u>	<u>FY 2013</u>
NACT Technology Development		1Q - 4Q	1Q - 4Q	1Q - 4Q				