

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604870A - Nuclear Arms Control Monitoring Sensor Network			
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
SE1 NACT SENSOR ENGINEERING	6980	6240	7140	Continuing	Continuing

A. Mission Description and Budget Item Justification: This project provides Research, Development, Testing & Evaluation (RDTE) 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).

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<u>B. Program Change Summary</u>	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	7253	6260	
Current BES/President's Budget (FY 2010)	6980	6240	7140
Total Adjustments	-273	-20	7140
Congressional Program Reductions		-20	
Congressional Rescissions			
Congressional Increases			
Reprogrammings	-70		
SBIR/STTR Transfer	-203		
Adjustments to Budget Years			7140

Change Summary Explanation: Funding - FY 2010 funding increase to continue the Defense Nuclear Arms Control Technology Program.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

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COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
SE1 NACT SENSOR ENGINEERING	6980	6240	7140	Continuing	Continuing

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<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Conduct analyses as required to support the OSD treaty manager.	430	305	340
Continue development of a prototype sensor.	1300	1200	1400
Continue development of radionuclide particle and noble gas detectors	325	400	400
Continue Information management systems enhancements	1200	1200	1500
Continue the R&D support system	700	660	900
Continue on-location research of calibration for infrasound events	350	400	500
Continue development of techniques to identify signals from sensor systems	1250	1000	1300
Continue development of nuclear detection and measurement systems	1425	900	800
Small Business Innovative Research/Small Business Technology Transfer Programs		175	
Total	6980	6240	7140

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

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PROJECT

SE1

C. Acquisition Strategy Not applicable for this item.

ARMY RDT&E COST ANALYSIS (R3)

May 2009

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 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Product Development	Various	MS, VA	1731	2428	1-3Q	2400	1-3Q	2300	1-3Q	Cont.	Cont.	
Subtotal:			1731	2428		2400		2300		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 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	1957	1-4Q	1600	1-4Q	1600	1-4Q	Cont.	Cont.	
Support Contracts & Government Support	Various	FL, NM, VA, AL	1347	1165	1-4Q	760	1-4Q	1200	1-4Q	Cont.	Cont.	
SMDC Support	Various	Huntsville, AL	500	500	1-4Q	500	1-4Q	1200	1-4Q	Cont.	Cont.	
Subtotal:			4462	3622		2860		4000		Cont.	Cont.	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	Huntsville, AL	500	430	2-3Q	480	2-3Q	340	1-4Q	Cont.	Cont.	
Subtotal:			500	430		480		340		Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SMDC Support	Various	Huntsville, AL	500	500	1-4Q	500	1-4Q	500	1-4Q	Cont.	Cont.	

ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE						PROJECT	
5 - System Development and Demonstration	0604870A - Nuclear Arms Control Monitoring Sensor Network						SE1	
Subtotal:	500	500		500		500	Cont.	Cont.
Project Total Cost:	7193	6980		6240		7140	Cont.	Cont.

Schedule Profile (R4 Exhibit)

May 2009

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PROJECT
SE1

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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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<u>Schedule Detail</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>	<u>FY 2014</u>	<u>FY 2015</u>
NACT Technology Development	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q

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