

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY <b>4 - Advanced Component Development and Prototypes</b>		PE NUMBER AND TITLE <b>0603619A - Landmine Warfare and Barrier - Adv Dev</b>			
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
606 CNTRMN/BARRIER ADV DEV	19120	14186	17536	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** This program element provides for advanced development of all landmine and counter landmine technologies. Currently it contains one funded project line. It provides for component development of new counter mine systems for neutralizing, clearing, and detection concepts that will enhance the effectiveness of the Route Clearance Family of Systems Capabilities Development Document. One of these programs is planned for FY2010 - the Autonomous Mine Detector System (AMDS). AMDS provides stand off detection for the dismounted soldier. AMDS consist of three payloads for a robotic platform. The payloads are for remote mine detection and marking, explosive hazard detection and marking, and neutralization.

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BUDGET ACTIVITY

PE NUMBER AND TITLE

**4 - Advanced Component Development and Prototypes**

**0603619A - Landmine Warfare and Barrier - Adv Dev**

**B. Program Change Summary**

	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	24580	29234	18873
Current BES/President's Budget (FY 2010)	19120	14186	17536
Total Adjustments	-5460	-15048	-1337
Congressional Program Reductions		-15048	
Congressional Recissions			
Congressional Increases			
Reprogrammings	-4772		
SBIR/STTR Transfer	-688		
Adjustments to Budget Years			-1337

Change Summary Explanation:

FY 2008: \$4.7M was reprogrammed to PE 0604808A/Project 415 for ASTAMIDS program.

FY 2009: \$15.0M Congressional Reduction for delays in the AMDS program.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>4 - Advanced Component Development and Prototypes</b>	<b>PE NUMBER AND TITLE</b> <b>0603619A - Landmine Warfare and Barrier - Adv Dev</b>			<b>PROJECT</b> <b>606</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
606 CNTRMN/BARRIER ADV DEV	19120	14186	17536	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** This project provides for component development of new countermines systems for neutralizing, clearing, and detection concepts that will enhance the effectiveness of the Route Clearance Family of Systems Capabilities Development Document. One of these programs is planned for FY2010 - the Autonomous Mine Detector System (AMDS). AMDS provides stand off detection for the dismounted soldier. AMDS consist of three payloads for a robotic platform. The payloads are for remote mine detection and marking, explosive hazard detection and marking, and neutralization.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Initiate Autonomous Mine Detection Sensors (AMDS) program	19120		
Build and test AMDS Brassboards (2)		13788	17536
Small Business Innovative Research/Small Business Technology Transfer Program		398	
<b>Total</b>	<b>19120</b>	<b>14186</b>	<b>17536</b>

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

**C. Acquisition Strategy** Autonomous Mine Detection Sensors (AMDS) - The AMDS is currently in a risk reduction effort that started in FY08 and will be completed in FY10. Future technical development effort will occur leading to a transition from Concept Development (6.4) to Engineering Manufacturing Development (6.5)

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
4 - Advanced Component Development and Prototypes			0603619A - Landmine Warfare and Barrier - Adv Dev								606	
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
Adv Mine Detection Sensors - BAAs	C/CPFF	Various		6992	2Q	5390	3Q				12382	
Adv Mine Detectio Sensors Tech Dev	C/CPFF	To Be Selected				881	3Q	9634	2Q		10515	
AMDS Other Component Development	C/FP, T&M	Various		7681	2Q	1209	2Q	3228	2Q		12118	
Subtotal:				14673		7480		12862			35015	
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
Adv Mine Detection Sensors	MIPR	Various OGAs		2969	2Q	4267	2Q	2889	2Q		10125	
Subtotal:				2969		4267		2889			10125	
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
AMDS	MIPR	Various OGA		59	2Q	84	2Q	184	2Q		327	
Subtotal:				59		84		184			327	
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
Program Management	IN-House	PM Close Combat	900	925	1Q	1414		477	1Q		4284	

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		Systems Picatinny NJ/ Ft Belvoir VA										
Program Management Contractor	C/FP	Millenium Arlington, VA						256	2Q		506	
Program Management Contractor Support	C/FP	FALCON, Fairfax VA	122	494	2Q	543		868	2Q		2625	
SBIR/STTR						398					398	
Subtotal:			1022	1419		2355		1601			7813	
<b>Project Total Cost:</b>			<b>1022</b>	<b>19120</b>		<b>14186</b>		<b>17536</b>			<b>53280</b>	

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE																PROJECT															
<b>4 - Advanced Component Development and Prototypes</b>	<b>0603619A - Landmine Warfare and Barrier - Adv Dev</b>																<b>606</b>															
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
Risk Reduction Effort - Broad Agency Announcement																																
Advanced Mine Detection Sensors Technology Development																																
(1) AMDS Milestone A					▲ 1																											
Build Multiple Brassboards																																
(2) AMDS MS A Preliminary Design Review													▲ 2																			

## Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT	
<b>4 - Advanced Component Development and Prototypes</b>		<b>0603619A - Landmine Warfare and Barrier - Adv Dev</b>						<b>606</b>	
<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>	
Risk Reduction Effort - Broad Agency Announcement	2Q - 4Q	1Q - 4Q	1Q - 4Q						
Advanced Mine Detection Sensors Technology Development		2Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 3Q				
AMDS Milestone A		2Q							
Build Multiple Brassboards		4Q	1Q - 2Q						
Test Brassboards				2Q - 4Q					
AMDS MS A Preliminary Design Review			4Q						
AMDS MS A Critical Design Review				4Q					
AMDS Milestone B					4Q				
HMDS Milestone A				1Q					
HMDS Sensor Technology Development				2Q - 4Q	1Q - 2Q				