

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY

4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE

060361 □ A - Landmine Warfare and Barrier - Adv Dev

COST (In Thousands)	FY 2004 Actual	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
Total Program Element (PE) Cost	34952	15843	0	8311	39325	43773	18699	4142	0	174525
005 CLOSE COMBAT CAPABILITIES ADV DEV	25372	0	0	0	0	0	0	0	0	25372
606 CNTRMN/BARRIER ADV DEV	9580	15843	0	8311	39325	43773	18699	4142	0	149153

A. Mission Description and Budget Item Justification: This program element provides for component development of new mine, counter mine, demolition, non-lethal, and shoulder launched munitions/systems by prototyping modern munitions technology, logic networks, fuzes, power sources, warhead components and modules into complete systems. This Program Element provides for development of grenades, munition simulators, and pyrotechnic devices. Additionally, this Program Element (PE) provides for the Intelligent Munitions System (IMS). The IMS provides the Future Combat System (FCS) unit of action with capability of intelligent mines, both lethal and non-lethal, demolitions includes sensors/seekers used by the US Army. It will enhance the effectiveness of the unit of action by providing networked munitions and real time targeting data capabilities. The IMS will significantly enhance minefield effectiveness through coordinated attack/tactics and elimination of overwatch forces. This PE also provides for the initiation and/or continuation of component development of the Airborne Stand-off Minefield Detection System (ASTAMIDS) a Future Combat System complementary system.

IMS is an FCS Core and a Landmine alternative program; GSTAMIDS and ASTAMIDS are FCS Complementary programs.

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<u>B. Program Change Summary</u>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	11634	0	8167
Current Budget (FY 2006/2007 PB)	15843	0	8311
Total Adjustments	4209	0	144
Net of Program/Database Changes			
Congressional Program Reductions	-236		
Congressional Rescissions			
Congressional Increases	4900		
Reprogrammings			
SBIR/STTR Transfer	-455		
Adjustments to Budget Years			144

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PROJECT

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COST (In Thousands)	FY 2004 Actual	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
606 CNTRMN/BARRIER ADV DEV	9580	15843	0	8311	39325	43773	18699	4142	0	149153

A. Mission Description and Budget Item Justification: This project provides for component development of new countermines systems for neutralizing, clearing, breaching and detection concepts that will enhance the effectiveness of the Objective Force to maintain freedom of maneuver. The program includes the Airborne Standoff Minefield Detection System (ASTAMIDS) and Ground Standoff Mine Detection System Future Combat Systems (GSTAMIDS FCS). With the advent of the Army's Future Force Transformation, the GSTAMIDS Program has been restructured to meet the countermines requirements for the FCS. The April 2003 Joint Requirements Oversight Council (JROC) approved the FCS Operational Requirements Document (ORD) which includes countermines requirements. ASTAMIDS and GSTAMIDS have been identified in Spirals 2 and 3 respectively as part of the Chief of Staff of the Army's initiative to spiral future capabilities to the current force. The GSTAMIDS FCS forward looking effort will transition advanced technologies from the Army's S&T program into development to further enhance vehicle mounted mine detection capabilities for FCS.

Accomplishments/Planned Program

	FY 2004	FY 2005	FY 2006	FY 2007
ASTAMIDS System Development and Demonstration.	7451	7826	0	0
Test planning, preparation, and support for ASTAMIDS.	878	1795	0	0
ASTAMIDS Modeling, Analysis and Engineering support.	1251	1524	0	0
GSTAMIDS FCS System Development and Demonstration – Forward Looking	0	0	0	8311
MV/MNT Program for Simulaton Based Operations Program	0	4698	0	0
Totals	9580	15843	0	8311

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B. Other Program Funding Summary

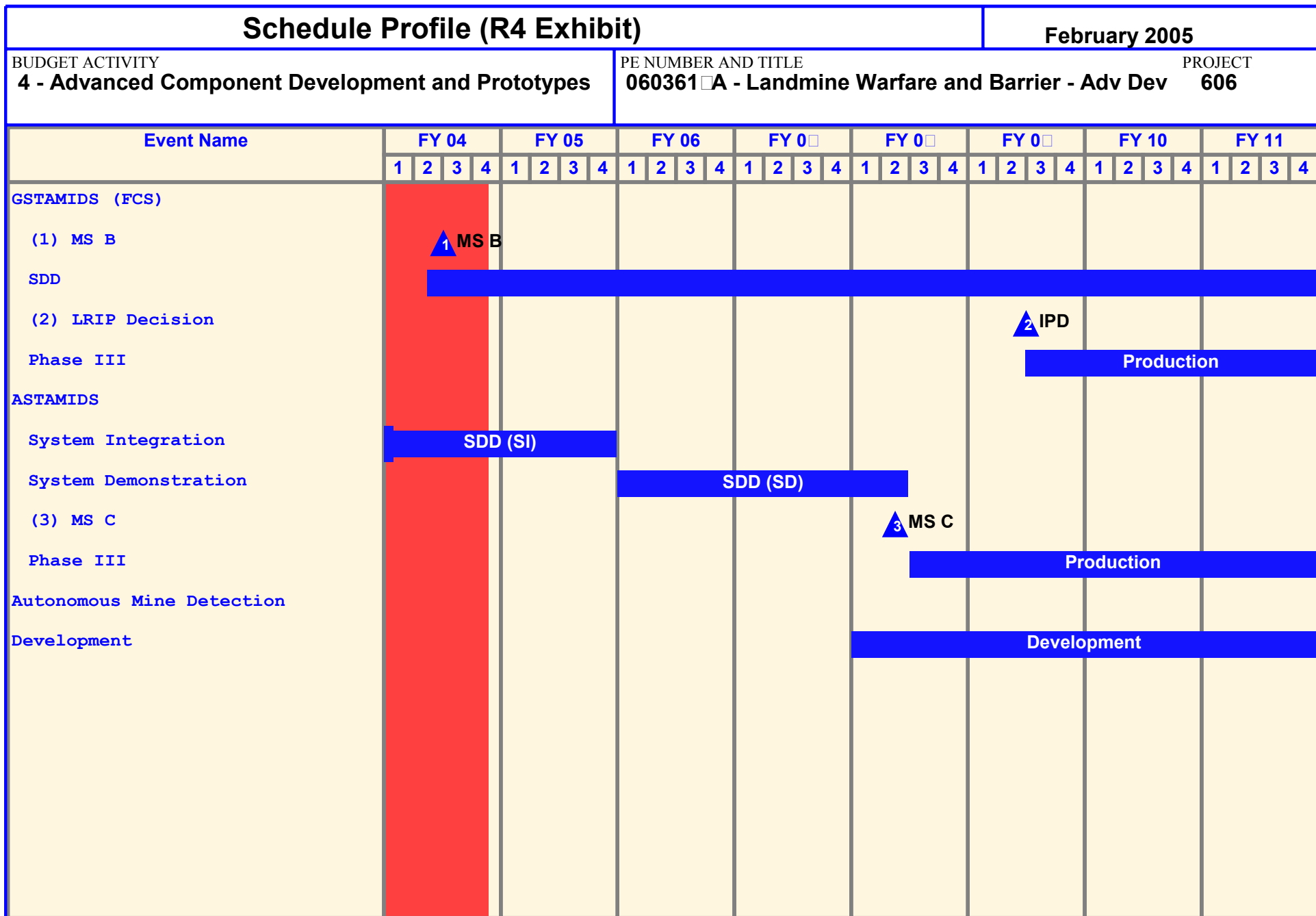
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
PE 0604808A, Project 415, Mine Neutralization/Detection	32184	14123	34327	27512	46446	64504	55429	20804	Continuing	Continuing
S11500, ASTAMIDS	0	0	0	0	11363	12191	11975	12208	Continuing	Continuing

C. Acquisition Strategy: The Airborne Stand-off Minefield Detection System (ASTAMIDS) prime contractor was competitively selected and awarded a System Development and Demonstration (SDD) contract after Milestone Decision Authority (MDA) Milestone B approval. A sole source production contract with multiple options is anticipated.

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
4 - Advanced Component Development and Prototypes					060361 A - Landmine Warfare and Barrier - Adv Dev					606		
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
a . ASTAMIDS	C-CPIF	Northrup Grumman, Melbourne, FL	25169	7826	1Q	0		0		0	32995	32995
b . Landmine Test Assets Procurement	MIPR	Various	0	0		0		0		0	0	0
c . GSTAMIDS FCS - Forward Looking	TBD	TBD	0	0		0		7900	2Q	Continue	7900	0
d . MVMNT	TBD	Reprogramming Action	0	4698		0		0		0	4698	0
Subtotal:			25169	12524		0		7900		Continue	45593	32995
II. Support Cost	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
a . ASTAMIDS	MIPR	NVESD Ft Belvoir VA	2287	472	1Q	0		0		0	2759	0
b . ASTAMIDS	MIPR	Various	769	256	1-4Q	0		0		0	1025	0
c . GSTAMIDS FCS - Forward Looking	TBD	TBD	0	0		0		411	1Q	Continue	411	0

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II. Support Cost (continued)	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
			3056	728		0		411		Continue	4195	0
Subtotal:												
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
a . ASTAMIDS	MIPR	DTC, MD	623	1010	2Q	0		0		0	1633	0
Subtotal:			623	1010		0		0		0	1633	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
a . Program Management	In-house	PM-CCS Picatinny NJ / Ft Belvoir VA	697	856	1-4Q	0		0		0	1553	0
b . Program Management Contractor Support	C-FP	BRTRC Farifax VA	1212	725	1Q	0		0		0	1937	1930

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IV. Management Services (continued)	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	
Subtotal:			1909	1581		0		0		0	3490	1930	
Project Total Cost:				30757	15843		0		8311		Continue	54911	34925



Schedule Detail (R4a Exhibit)							February 2005	
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<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
ASTAMIDS Transition from SI to SD portion of SDD			2Q					
GSTAMIDS FCS MS B	3Q							
GSTAMIDS FCS MS C			2Q			2Q		
GSTAMIDS FCS - Forwarding Looking MS B				2Q				