

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE								
5 - System Development and Demonstration		0604808A - Landmine Warfare/Barrier - Eng Dev								
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
Total Program Element (PE) Cost	103399	92237	142315	89105	62797	41351	51523	39908	Continuing	Continuing
016 Close Combat Capabilities ENG DEV	30878	56529	95203	36321	19101	19835	31300	21300	Continuing	Continuing
415 MINE NEUTRAL/DETECTION	36469	35708	47112	52784	43696	21516	20223	18608		276116
419 FULL SPECTRUM EFFECTS PLATFORM (F-SEP)	31300									31300
434 ANTI-PERSONNEL LANDMINE ALTERNATIVES (NSD)	4752									11692

A. Mission Description and Budget Item Justification: This program element (PE) provides for System Development and Demonstration of networked munitions and countermine systems. This PE implements the National Landmine Policy to develop alternatives to the non-self-destructing anti-vehicle and anti-personnel landmine systems: the Close Combat Capabilities Engineering Development, provides for the development of the anti vehicle mine replacement, the Intelligent Munitions System (IMS), a Future Combat System Core system. Anti-Personnel Landmine Alternatives provides for development of the Spider alternative systems for Non Self-Destruct (NSD) Anti-Personnel Landmines (APLs). The program also provides for a variety of demolition efforts to include development of Magneto-Inductive Remote Activation Munition System (MI-RAMS). Project Mine Neutralization/Detection Engineering Development provides for development of the Airborne Surveillance, Target Acquisition and Minefield Detection (ASTAMIDS), Ground Standoff Mine Detection System (GSTAMIDS), and the Advanced Mine Detection System (AMDS). IMS is a Future Combat System Core and a Landmine alternative program; ASTAMIDS and GSTAMIDS are Future Combat System Complementary Programs.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev
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<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	74482	118078	103817	101633
Current BES/President's Budget (FY 2008/2009)	103399	92237	142315	89105
Total Adjustments	28917	-25841	38498	-12528
Congressional Program Reductions		-28364		
Congressional Rescissions				
Congressional Increases		3200		
Reprogrammings	28917	-677		
SBIR/STTR Transfer				
Adjustments to Budget Years			38498	-12528

Change Summary Explanation: Funding:

FY 2006: \$31.3M reprogrammed from OSD Rapid Equipping Force to Project 419 for Full Spectrum Effects Platform.

FY 2007: \$28.0M Congressional decrease for Intelligent Munitions System (IMS), Project 016. \$3.2M Congressional increase for Magneto-Inductive Remote Activation Munition System (MI-RAMS).

FY 2008: Funds realigned (+\$38.5M) from IMS PAA, E96901 to IMS RDTE, Project 016 due to delay in award of SDD contract.

FY 2009: Funds realigned (-\$12.5M) to higher priority requirements.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev							PROJECT 016	
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
016 Close Combat Capabilities ENG DEV	30878	56529	95203	36321	19101	19835	31300	21300	Continuing	Continuing

A. Mission Description and Budget Item Justification: The Intelligent Munitions System is an integrated system of effects (lethal anti-vehicle, anti-personnel, non-lethal, demolitions), software, sensors/seekers and communications that may be emplaced by multiple means and is capable of unattended employment for the detection, classification, tracking and engagement of selected targets in accordance with the commander's intent. IMS is one of the 18 Core systems that make up the Future Combat Systems Family of Systems. With its self-destructing/self-deactivating capability it is the materiel solution that will comply with the National Landmine Policy to replace all non-self-destructing anti-vehicle mines from the U.S. inventory. IMS will enhance the effectiveness for both the current and future force in the areas of force protection and battle space shaping. This project also provides for Magneto-Inductance Remote Activation Munition System (MI RAMS).

Accomplishments/Planned Program:	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY06-FY09: Continues with the IMS system development.	22173	37727	69197	25225
FY06-FY09: Continues integration of IMS into FCS..	800	4200	4045	1461
FY06-FY09: Continues to conduct IMS modeling and simulation.	1100	1100	1340	970
FY06-FY09: Conduct IMS system Contractor/Government, Development and Operational Testing.	4905	7410	17469	7365
FY06-FY09: Provide Government Furnished Material to contractor for development of IMS	1900	1318	3152	1300
FY07 : Complete developmentof MI-RAMS		3200		
Small Business Innovative Research/Small Business Technology Transfer Programs		1574		
Total	30878	56529	95203	36321

B. Other Program Funding Summary	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
PAA E96901 - Intelligent Munitions System				83805	82432	206653	207372	212180	Continuing	Continuing
OPA2 B55503 - Intelligent Munitions System (IMS) Remote Control Unit				20951	19910	51663	51843	53044	Continuing	Continuing

Comment:

C. Acquisition Strategy The Intelligent Munitions System (IMS) is a core FCS system that being developed as an evolutionary acquisition, in an incremental approach. An

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604808A - Landmine Warfare/Barrier - Eng Dev

PROJECT

016

incremental strategy will meet all requirements in the future. The first increment will meet US National Landmine Policy and provide future force capability to the current force. In June 2006 a System Development and Demonstration contract was awarded to Textron Systems of Wilmington, MA. This contract has two Low Rate Initial Production (LRIP) Options. Increment 1 will serve as the baseline design for the follow-on increments and enabling technology development will be conducted to ensure the follow-on increments_ requirements can be rapidly achieved at the lowest cost possible.

MI-RAMS - Awarded a sole source contract to Magneto Inductive Systems LTD for SDD.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
5 - System Development and Demonstration			0604808A - Landmine Warfare/Barrier - Eng Dev									016		
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
IMS System Development & Demonstration	C-CPIF	Textron System Corp., Wilmington, MA	15993	19653		35841	2Q	67238	2Q	19100	2Q	Cont.	Cont.	
IMS - MITRE provide C4 support		MITRE, McLean, VA	576	720	1-3Q	1175	1Q	805	1-3Q	805	1-3Q	Cont.	Cont.	
MI RAMS Development	SS-CIPF	Magnito Inductance Systems LTD Panama City, FL	5207			3200	3Q						8407	
Subtotal:			21776	20373		40216		68043		19905		Cont.	Cont.	
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
IMS Engineering Support	MIPR	ARDEC Picatinny Arsenal, NJ	5145	4293	1Q	4200	1Q	5300	1Q	4305	1Q	Cont.	Cont.	
IMS Engineering Support	MIPR	Various	1267	1834	1Q	2948	1-4Q	3200	1-4Q	2011	1-4Q	Cont.	Cont.	
IMS - PM HMS	MIPR	Fort Monmouth, NJ		1400	4Q	1344	3Q	3500	2Q	1500	2Q		7744	
Subtotal:			6412	7527		8492		12000		7816		Cont.	Cont.	
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
IMS	MIPR	Various	310	689	1Q	1030	1-4Q	2400	1-4Q	2000	1-4Q	Cont.	Cont.	
IMS	MIPR	DTC,APG,MD		7	1Q	1000	2Q	8000	2-4Q	2500	1-4Q	Cont.	Cont.	
Subtotal:			310	696		2030		10400		4500		Cont.	Cont.	

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev									PROJECT 016		
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
IMS	In-House	PM CCS, Picatinny Arsenal, NJ	896	1171	1-4Q	3257	1-4Q	3500	1-4Q	3000	1-4Q	Cont.	Cont.	
IMS	T.O. Contract	Robbins-Goia, Alexandria, VA		829	2Q	440	2Q	600	2Q	600	2Q	Cont.	Cont.	
IMS	T.O. Contract	BRTRC, Alexandria, VA		282	2Q	520	2Q	660	2Q	500	2Q	Cont.	Cont.	
SBIR/STTR						1574								1574
Subtotal:			896	2282		5791		4760		4100		Cont.	Cont.	
Project Total Cost:			29394	30878		56529		95203		36321		Cont.	Cont.	

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604808A - Landmine Warfare/Barrier - Eng Dev

PROJECT
016

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	
INCREMENT I IMS	[Redacted]																																
(1) IMS SDD Contract Award			▲ 1																														
(2) IMS SDD System Requirement Review (SRR)				▲ 2																													
(3) IMS System Functional Review (SFR)					▲ 3																												
(4) IMS Preliminary Design Review (PDR)							▲ 4																										
(5) IMS Critical Design Review (CDR)									▲ 5																								
(6) IMS Milestone C													▲ 6																				
(7) IMS Initial Operational Capability																			▲ 7														
(8) IOT&E																					▲ 8												
(9) Full Rate Production Decision																																	
INCREMENT II IMS	[Redacted]																																
(10) Milestone B																																	
(11) Milestone C																																	

Schedule Detail (R4a Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604808A - Landmine Warfare/Barrier - Eng Dev

PROJECT
016

<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>
INCREMENT I IMS	3Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 3Q				
IMS SDD Contract Award	3Q							
IMS SDD System Requirement Review (SRR)	4Q							
IMS System Functional Review (SFR)		1Q						
IMS Preliminary Design Review (PDR)		3Q						
IMS Critical Design Review (CDR)			2Q					
IMS Milestone C				2Q				
IMS Initial Operational Capability					2Q			
IOT&E					2Q			
Full Rate Production Decision						1Q		
INCREMENT II IMS					3Q - 4Q	1Q - 4Q	1Q - 4Q	1Q
Milestone B					3Q			
Milestone C							4Q	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev						PROJECT 415	
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
415 MINE NEUTRAL/DETECTION	36469	35708	47112	52784	43696	21516	20223	18608		276116

A. Mission Description and Budget Item Justification: This project provides System Development and Demonstration (SDD) for the Airborne Surveillance, Target Acquisition, and Minefield Detection System (ASTAMIDS). The ASTAMIDS uses Multi-Spectral Imaging (MSI) and visible/Near Infrared sensor mounted on a Future Combat System Brigade Combat Team (BCT) Unmanned Aerial Vehicle to detect and locate combat targets and to detect minefields and obstacles that are impediments to maneuver forces. ASTAMIDS can be used in tactical operations day and night, to detect surface emplaced and recently buried minefields and obstacles. ASTAMIDS can also recognize and identify combat targets and designate them for laser guided munitions.

Ground Standoff Mine Detection System Future Combat Systems (GSTAMIDS FCS) With the advent of the Army's Future Force Transformation, the GSTAMIDS Program was restructured to meet the countermine requirements for FCS. The April 2003, Joint Requirements Oversight Council (JROC) approved the FCS Operational Requirements Document (ORD) which includes countermine requirements. The GSTAMIDS FCS will provide the Unit of Action (UA) a capability that can be used for on-route mine detection, mine and temporary lane marking, precision mine neutralization and interfaces with FCS host platform(s) and Command, Control, Communications, and Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR).
ASTAMIDS and GSTAMIDS have been identified in FCS Spinouts 2 & 3 respectively as part of the Army's initiative to spiral future capabilities to the current force.

Autonomous Mine Detection Sensors (AMDS) is the Mine Detection Mission Payload for a robotic platform

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY06: ASTAMIDS - Completes Preliminary Design Reviews	9664			
FY06: ASTAMIDS - Completes Spiral 1 Component Fabrication	2000			
FY06: ASTAMIDS - Initiates Spiral 1 Gimbal Fabrication	4000			
FY06: ASTAMIDS - Initiates Spiral 2 Component Fabrication	1576			
FY07: ASTAMIDS - Completes Spiral 1 Prototype Fabrication		1746		
FY07: ASTAMIDS - Initiates Contractor Functional and Qual Test		5738		
FY07: ASTAMIDS - Completes Critical Design Reviews		7204		
FY08: ASTAMIDS - Completes Spiral 2 Prototype Fabrication /Delivery AP #3, #4			3500	
FY08: ASTAMIDS - Initiates Spiral 3 Component Fabrication			4805	
FY08: ASTAMIDS - Initiates Spiral 3 Gimbal/Prototype Fabrication			5000	
FY08: ASTAMIDS - Completes Test Readiness Review (TRR)			3500	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY	PE NUMBER AND TITLE				PROJECT	
5 - System Development and Demonstration	0604808A - Landmine Warfare/Barrier - Eng Dev				415	
FY08: ASTAMIDS - Completes Contractor DT Testing					5682	
FY08: ASTAMIDS - Delivery of AP PROTOTYPES #1, #2					3000	
FY09: ASTAMIDS Take delivery of 3 systems and begin DT/OT testing.						27283
FY06: GSTAMIDS FCS - Complete computer architecture		2774				
FY06: GSTAMIDS FCS - Complete initial lane marker visibility experiment		862				
FY06: GSTAMIDS FCS - Complete testing of scanning sensor EDU (12A). Complete design of second iteration scanning sensor		8488				
FY06: GSTAMIDS FCS - Procurement of surrogate test vehicle and integration tasks		1140				
FY06: GSTAMIDS FCS - SEIT - Complete Trade studies and System Requirements Review 2		4499				
FY06: GSTAMIDS FCS -Initiate design of mine neutralizer munition and fuze		1466				
FY07: GSTAMIDS FCS - Computer system and subsystem manager with initial integration with scanning sensor				3959		
FY07: GSTAMIDS FCS - Conduct lane marker visibility experiment with manned platform				226		
FY07: GSTAMIDS FCS - Complete scanning sensor final prototype preliminary design and detection algorithm				6162		
FY07: GSTAMIDS FCS - Complete initial fuze prototype, RF command initiated fuze simulator, and initial design of munition				5714		
FY07: GSTAMIDS FCS - Complete Preliminary Design review, SRR 3, integration/test of computer and scanning sensor				3552		
FY07: GSTAMIDS FCS - Complete fabrication and build of surrogate test vehicle				472		
FY08: GSTAMIDS FCS - Complete computer s/w and hardware, deliver initial emulator hardware and s/w					3848	
FY08: GSTAMIDS FCS - Complete build and test of Lane Marking subsystem final prototype					2439	
FY08: GSTAMIDS FCS - Complete build and test of scanning sensor final prototype and deployment mechanism					4266	
FY08: GSTAMIDS FCS - Complete neutralizer munition design, neutralizer magazine and deliver mechanism design					7287	
FY08 - FY09: GSTAMIDS FCS - Complete critical design review and final prototype development and testing					3785	25501
Small Business Innovative Research/Small Business Technology Transfer Programs					935	
Total		36469			35708	47112

<u>B. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
PE 0603619A, Project 606, Countermines/Barrier Advanced Dev		8346	24737	29423	19008	19213	19800	20300	Continuing	Continuing
OPA 3, R68102, GSTAMIDS FCS/Interim capability			63016	47103	44490	63123	64100	30100	Continuing	Continuing
OPA 3, S11500 ASTAMIDS			11708	12860	12487	12631	12600	12900	Continuing	Continuing

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604808A - Landmine Warfare/Barrier - Eng Dev

PROJECT

415

Comment:

C. Acquisition Strategy The ASTAMIDS competitively selected Prime System contractor was awarded Cost Plus Incentive Fee (CPIF) System Development and Demonstration (SDD) in FY03 after MDA Milestone B approval. Milestone C is scheduled for FY 2009.

GSTAMIDS FCS entered the SDD Phase in June 2004 with MDA approval of MS B and competitively awarded a SDD Cost Plus Fixed Fee (CPFF) contract. Milestone C is scheduled for FY2012. Production will be initiated/executed via noncompetitive contract in FY2013.

AMDS - The acquisition strategy for SDD supports a competitive effort with one or more contractors/technology approaches. AMDS funding will transition from Advanced Development (D606) to Engineering Development (D415) in FY2011.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
5 - System Development and Demonstration			0604808A - Landmine Warfare/Barrier - Eng Dev									415		
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
GSTAMIDS FCS	C-CPFF	BAE Systems, Austin, TX	17869	14889	2Q	14011	1Q	14183	1Q	17135		Cont.	Cont.	Cont.
ASTAMIDS	C-CPIF	Northrup Grumman	12000	14220	1Q	8700	1Q	17844		19100		Cont.	Cont.	Cont.
Subtotal:			29869	29109		22711		32027		36235		Cont.	Cont.	Cont.
II. Support Costs			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
GSTAMIDS FCS	MIPR	Various OGAs		715	1Q	1333	1Q	1490	1Q	1639	1Q	Cont.	Cont.	
GSTAMIDS FCS Engineering Support	MIPR	NVESD/CECOM, Ft Belvoir, VA		1662	1Q	2145	1Q	2450	1Q	2900	1Q	Cont.	Cont.	
GSTAMIDS FCS Support	Task Orders	Various Contractors		305	1Q	360	1Q	380	1Q	418	1Q	Cont.	Cont.	
ASTAMIDS Engineering Support	MIPR	NVESD/CECOM, Fortt Belvoir, VA		1266	1Q	1550	1Q	1274	1Q	1548	1Q	Cont.	Cont.	
ASTAMIDS Support	Various	Various		131	1Q	21	1Q	1001	1Q	1101	1Q	Cont.	Cont.	
Subtotal:				4079		5409		6595		7606		Cont.	Cont.	
III. Test And Evaluation			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
GSTAMIDS FCS Test Support	MIPR	ATEC, Alexandria, VA		620	3Q	509	2Q	500	2Q	500		Cont.	Cont.	
ASTAMIDS	MIPR	ATEC, Alexandria, VA		175	4Q	1950	2Q	2707	2Q	2980		Cont.	Cont.	
Subtotal:				795		2459		3207		3480		Cont.	Cont.	

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604808A - Landmine Warfare/Barrier - Eng Dev

PROJECT
415

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
Program management	In-House	PM-CCS, Picatinny Arsenal, NJ		601	1-4Q	2314	1-4Q	3388	1-4Q	3558	1-4Q	Cont.	Cont.	
Program management Contractor support	Task Order	BRTRC		1885	1-4Q	1880	1-4Q	1895		1905	1-4Q	Cont.	Cont.	
SIBR/STTR						935							935	
Subtotal:				2486		5129		5283		5463		Cont.	Cont.	
Project Total Cost:				29869		36469		47112		52784		Cont.	Cont.	Cont.

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604808A - Landmine Warfare/Barrier - Eng Dev

PROJECT
415

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								
GSTAMIDS (FCS)																																								
Preliminary Design Review																																	PDR							
Critical Design Review																																	CDR							
Test Readiness Review																																	TRR							
Delivery of Prototype to LSI																																	Prototype							
(1) Milestone C																																	▲							
Low Rate Initial Production	LRIP																																							
ASTAMIDS FCS																																								
Preliminary Design Review																																	PDR							
Critical Design Review																																	CDR							
Test Readiness Review																																	TRR							
(2) Milestone C/LRIP																																	▲							
Initial Operational Test & Evaluation																																	IOTE							
Initial Operational Capability	IOC																																							
Full Rate Production																																								
AMDS																																								

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604808A - Landmine Warfare/Barrier - Eng Dev

PROJECT
415

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				
(3) Milestone B																																				
System Requirements Review																																				
SFR																																				
Preliminary Design Review																																				
Critical Design Review																																				
(4) Milestone C																																				

Schedule Detail (R4a Exhibit)

February 2007

**BUDGET ACTIVITY
5 - System Development and Demonstration**

**PE NUMBER AND TITLE
0604808A - Landmine Warfare/Barrier - Eng Dev**

**PROJECT
415**

<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>
GSTAMIDS (FCS)								
Milestone B								
Preliminary Design Review			2Q					
Critical Design Review				1Q	4Q			
Test Readiness Review				3Q - 4Q	1Q - 3Q			
Delivery of Prototype to LSI					2Q			
Milestone C								1Q
Low Rate Initial Production								1Q
ASTAMIDS FCS				2Q				
Milestone B								
Preliminary Design Review	3Q							
Critical Design Review			1Q					
Test Readiness Review		1Q - 2Q	4Q					
Milestone C/LRIP				2Q				
Initial Operational Test & Evaluation					1Q			
Initial Operational Capability					2Q			
Full Rate Production					3Q			
AMDS								
Milesstone B					4Q			
System Requirements Review						2Q		
SFR						4Q		
Preliminary Design Review						4Q		
Critical Design Review							3Q	
Milestone C							4Q	

