

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev						
COST (In Thousands)	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	57090	74482	118078	103817	101633	76168	41732	Continuing	Continuing
016 Close Combat Capabilities ENG DEV	36033	40658	81960	56652	36090	19816	20565	Continuing	337795
415 MINE NEUTRAL/DETECTION	14117	28909	36118	47165	65543	56352	21167	0	354407
434 ANTI-PERSONNEL LANDMINE ALTERNATIVES (NSD)	6940	4915	0	0	0	0	0	0	60475
<p><u>A. Mission Description and Budget Item Justification:</u> 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), an 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), Handheld Standoff Mine Detection System (HSTAMIDS), and Explosive Standoff Minefield Clearer (ESMC).</p> <p>IMS is a Future Combat System Core and a Landmine alternative program; ASTAMIDS and GSTAMIDS are Future Combat System Complementary Programs.</p>									

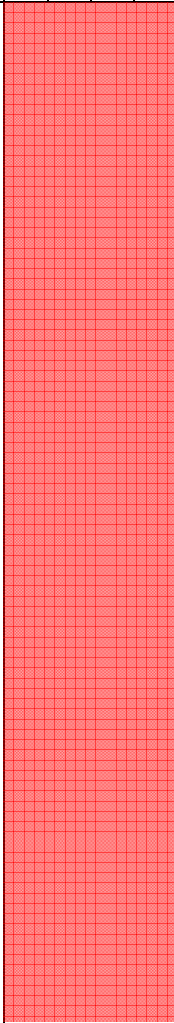
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BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev		
	FY 2005	FY 2006	FY 2007	
<u>B. Program Change Summary</u>				
Previous President's Budget (FY 2006)	57116	80560	80750	
Current BES/President's Budget (FY 2007)	57090	74482	118078	
Total Adjustments	-26	-6078	37328	
Congressional Program Reductions		-5327		
Congressional Rescissions		-751		
Congressional Increases				
Reprogrammings	-26			
SBIR/STTR Transfer				
Adjustments to Budget Years			37328	
Change Summary Explanation: Funding: FY 2007 Adjustment: +\$28.7M - Project 016 - Funding for IMS RDTE Program transferred from IMS production. +\$8.6M - Project 415 - Additional funding provided for the ASTAMIDS/GSTAMIDS Program.				

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev				PROJECT 016		
COST (In Thousands)		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
016 Close Combat Capabilities ENG DEV		36033	40658	81960	56652	36090	19816	20565	Continuing	337795
<p>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. It shall be fielded as part of the Future Combat System Spin-out 1 plan and the core program of record. 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.</p> <p>This project also provides for Magneto-Inductive Remote Activation Munition System (MI-RAMS).</p>										
Accomplishments/Planned Program						FY 2005	FY 2006	FY 2007		
FY05: Completed IMS concept development.						17008	0	0		
FY05: Completed IMS concept prototype assessment test.						6725	0	0		
FY06-FY07: Continues with the IMS system development.						0	36858	73710		
FY06-FY07: Continues integration of IMS into FCS.						800	0	0		
FY06-FY07: Continues to conduct IMS modeling and simulation.						3000	1100	550		
FY06-FY07: Conducts IMS system contractor, development and operational testing.						0	2700	7700		
FY05: Developed Magneto-Inductive Remote Activation Munition System (MI-RAMS) Shock Tube Initiator.						8500	0	0		
Total						36033	40658	81960		
B. Other Program Funding Summary		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
643619 / D005 Close Combat Capabilities - Advanced Development (IMS)		0	0	0	0	0	0	0	0	34951
PAA E96901 - Intelligent Munitions System		0	0	0	78805	97934	207792	242890	CONT	CONT
OPA2 B55503 - Intelligent Munitions System (IMS) Remote Control Unit		0	0	0	7219	6822	14550	15426	CONT	CONT

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)		February 2006
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	0604808A - Landmine Warfare/Barrier - Eng Dev	016
<p><u>C. Acquisition Strategy</u> IMS - The IMS is being developed as an evolutionary acquisition in an incremental approach. The first increment will field a capability to meet the National Landmine Policy and FCS spinout-1. Competitively awarded two cost plus incentive fee, incrementally funded Concept and Technology Development (C&TD) phase contracts which were completed in FY05. Will down-select to one of the C&TD phase contractors for System Development and Demonstration (SD&D) phase and award a cost plus incentive fee contract which will be incrementally funded . This contract will have Low Rate Initial Production (LRIP) Options. Follow-on increments will be developed as part of the FCS Spinout Plan.</p> <p>MI-RAMS - Awarded a sole source contract to Magneto Inductive Systems LTD for SDD.</p>		

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
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 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
IMS Technology development	C-CPIF	GDAIS, Bloomington, MN	9000	11532	1Q	0		0		Continue	20532	0
IMS Technology development	C-CPIF	Textron System Corp., Wilmington, MA	9000	6993	1Q	0		0		Continue	15993	0
IMS System Development and Demonstration (SDD)	C-CPIF	TBS	0	0		31877	3Q	72105	1Q	Continue	0	0
IMS - MITRE provide C4 support		MITRE, McLean, VA	0	576		690		690		0	1956	0
Magneto Inductive - RAMS	C-CPIF	Coastal System Station, Panama City FL	0	5207		0		0		Continue	13126	0
Subtotal:			18000	24308		32567		72795		Continue	51607	0
II. Support Costs	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
IMS Engineering Support	MIPR	ARDEC Picatinny Arsenal, NJ	2000	3145	1Q	2700	1Q	3000	1Q	Continue	0	0
IMS Engineering Support	MIPR	CECOM CERDEC, Fort Monmouth, NJ	600	300	1Q	400	1Q	400	1Q	Continue	0	0
IMS Engineering Support	MIPR	CECOM NVESD, Fort Belvoir, NJ	0	400	1Q	400	1Q	600	1Q	Continue	0	0
IMS Engineering Support	MIPR	Various	300	367	1Q	251	1Q	400	1Q	Continue	0	0
Magneto Inductive - RAMS	MIPR	Various	1715	1550	2Q	0		0		Continue	5665	0
Subtotal:			4615	5762		3751		4400		Continue	5665	0
III. Test And Evaluation	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award	FY 2006 Cost	FY 2006 Award	FY 2007 Cost	FY 2007 Award	Cost To Complete	Total Cost	Target Value of

ARMY RDT&E COST ANALYSIS (R3)									February 2006			
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev							PROJECT 016		
	Type				Date		Date		Date			Contract
Magneto Inductive - RAMS	MIPR	DTC, Aberdeen, MD	30	768		0		0		Continue	798	0
IMS	MIPR	AMSAA, APG, MD	310	415	1Q	225	1Q	225	1Q	Continue	0	0
IMS	MIPR	AEC, APG, MD	0	18	1Q	200	1Q	200	1Q	Continue	0	0
IMS	MIPR	DTC,APG,MD	0	2000	1Q	1000	1Q	1000	1Q	Continue	0	0
IMS	MIPR	CECOM, Fort Belvoir, VA	0	100	1Q	400	1Q	400	1Q	Continue	0	0
Subtotal:			340	3301		1825		1825		Continue	798	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
Magneto Inductive - RAMS	In-House	PM CCS, Picatinny Arsenal, NJ	356	975	1-4Q	0		0		Continue	1331	0
IMS	In-House	PM CCS, Picatinny Arsenal, NJ	896	1275	1-4Q	2095	1-4Q	2500	1-4Q	Continue	0	0
IMS	T.O. Contract	Robbins-Goia, Alexandria, VA	0	412	1Q	420	1Q	440	1-4Q	Continue	0	0
Subtotal:			1252	2662		2515		2940		Continue	1331	0
Project Total Cost:			24207	36033		40658		81960		Continue	59401	0

Schedule Profile (R4 Exhibit)																		February 2006																		
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev																		PROJECT 016													
Event Name					FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11							
					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) Milestone B Incr 1									SRR																											
SRR																																				
SFR																																				
PDR																																				
CDR																																				
(2) MS C																	MS C																			
(3) IOC																																				
Test & Evaluation																																				
FRPD																																				
																					IOC															
																					TOT&E															

Schedule Detail (R4a Exhibit)						February 2006	
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 2005</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>
INCREMENT I IMS							
IMS Prototype Assessment Test	3Q						
IMS Milestone B		2Q					
IMS SDD Contract Award		3Q					
IMS SDD System Requirement Review		3Q					
IMS System Functional Review		4Q					
IMS Preliminary Design Review			1Q				
IMS Critical Design Review				1Q			
IMS Milestone C					1Q		
IMS Initial Operational Capability						2Q	
IOT&E						2Q	
Full Rate Production Decision						4Q	
INCREMENT II IMS							
Milestone B					1Q		
Milestone C							4Q
INCREMENT III IMS							
Milestone B							4Q

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BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev				PROJECT 415	
COST (In Thousands)	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
415 MINE NEUTRAL/DETECTION	14117	28909	36118	47165	65543	56352	21167	0	354407
<p>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 IR 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. Handheld Stand-off Mine Detection System (HSTAMIDS) is a handheld multi-sensor detector that combines an advanced metal detector with a special purpose Ground Penetrating Radar (GPR) coupled to an advanced signal processor and software algorithms. It provides for enhanced detection capabilities against non-metallic mines and reduces incidences of false alarms in highly cluttered metal environments.</p> <p>Ground Standoff Mine Detection System Future Combat Systems (GSTAMIDS FCS) The advent of the Army's Future Force Transformation, the GSTAMIDS Program has been restructured to meet the countermines requirements for FCS. The April 2003, Joint Requirements Oversight Council (JROC) approved the FCS Operational Requirements Document (ORD) which includes countermines requirements. The GSTAMIDS FCS will provide the Unit of Action (UA) a capability that can be used for 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) reporting during on-route countermines operations. Sensor/Mine marking capability currently under development will be fielded into the current force on an existing platform in FY2008.</p> <p>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.</p> <p>Explosive Standoff Minefield Clearer (Mongoose) is a rocket deployed array of shaped charge munitions, launched across minefields and command detonated, to provide a high confidence cleared lane for the passage of mounted troops. Mongoose will defeat all defined threat mines from a stand-off position including mines with countermeasures to current countermines systems.</p>									
<u>Accomplishments/Planned Program</u>					<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>		
FY05: gstatmids FCS - Completed Engineering Development Unit (EDU) design and fabrication.					12797	0	0		
FY06: GSTAMIDS FCS - Initiates EDU preliminary testing and System Trade Studies					0	9333	0		
FY07: GSTAMIDS FCS - Initiates Development of the Brassboard prototypes & conducts contractor testing.					0	0	20626		
FY06: ASTAMIDS - Completes Preliminary Design Reviews					0	12000	0		
FY06: ASTAMIDS - Completes Spiral 1 Component Fabrication					0	2000	0		
FY06: ASTAMIDS - Initiates Spiral 1 Gimbal Fabrication					0	4000	0		
FY06: ASTAMIDS - Initiates Spiral 2 Component Fabrication					0	1576	0		

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FY07: ASTAMIDS - Completes Critical Design Reviews					0		0	3000		
FY07: ASTAMIDS - Completes Spiral 1 Prototype Fabrication					0		0	3000		
FY07: ASTAMIDS - Initiates Contractor Functional and Qual Testing					0		0	7492		
FY07: ASTAMIDS - Initiates Spiral 2 Gimbal Fabrication					0		0	2000		
FY05: ESMC - Successfully demonstrated resolution of technical issues in Full Scale flight test.					1320		0	0		
Total					14117		28909	36118		
B. Other Program Funding Summary		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
PE 0603619A, Project 606, Countermine/Barrier Advanced Dev		11141	0	8439	39929	44475	19008	4213	CONT	CONT
OPA 3, R68102, GSTAMIDS FCS/Interim capability		0	0	197061	272116	226063	219910	304123	CONT	CONT
OPA 3, R68105 ESMC		79264	2922	614	0	0	0	0	0	82800
Ammo, E81400 ESMC		0	0	0	20699	0	0	0	0	20699
OPA 3, S11500 ASTAMIDS		0	0	0	11708	12860	12487	12631	CONT	CONT
C. Acquisition Strategy The Explosive Standoff Minefield Detection Clearer (ESMC) competitively-selected CTD contractor, was awarded a sole source System Development & Demonstration (SDD) contract upon completion of CTD phase and MDA approval.										
The ASTAMIDS competitively selected Prime System contractor was awarded Cost Plus Incentive Fee (CPIF) System Development and Demonstration (SDD)after MDA Milestone B approval. A Sole source production contract with multiple options is anticipated.										
GSTAMIDS FCS entered the SDD Phase in 3QFY04 with MDA approval and competitively selected SDD Cost Plus Fixed Fee (CPFF)contract.										

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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
GSTAMIDS Block 1	C-CPFF	Quantum Magnetics San Diego, CA	1725	0		0		0		0	1725	1725
GSTAMIDS FCS	C-CPFF	BAE Systems, Austin, TX	17869	0		0		0		0	17869	17869
GSTAMIDS FCS	C-CPFF	BAE Systems, Austin, TX	0	8760	2Q	4900	1Q	15732	1Q	Continue	29392	Continue
GSTAMIDS Block 0	C-CPFF	EG&G Systems Inc., Albuquerque, NM	16406	0		0		0		0	16406	16406
HSTAMIDS	C-CPIF	CY Terra Corporation, Orlando, FL	15776	0		0		0		0	15776	15776
ESMC	SS-CPIF	BAE Systems, Austin, TX	68887	750		0		0		Continue	69637	69637
AROC II	Various		1850	0		0	1Q	0	1Q	1850	1850	1850
ASTAMIDS	C-CPIF	Northrup Grumman	12000	0		15360	1Q	8188	1Q	Continue	35548	Continue
Subtotal:			134513	9510		20260		23920		Continue	188203	Continue
II. Support Costs	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
Eng. support GSTAMIDS Blk 0	MIPR	NVESD/CECOM, Ft Belvoir, VA	6828	0		0		0		0	6828	0
Eng support GSTAMIDS Blk 0	MIPR	Various OGAs	6247	0		0		0		0	6247	0
Eng Support GSTAMIDS Block 0	Various	Various Contractors	7853	0		0		0		0	7853	0
GSTAMIDS Blk I/FCS	MIPR	Various OGAs	812	880	1Q	779	1Q	1147	1Q	Continue	3618	0
GSTAMIDS Support Blk I/FCS	MIPR	NVESD/CECOM, Ft Belvoir, VA	2716	1584	1Q	1444	1Q	2048		Continue	7792	0
Support GSTAMIDS Blk I/FCS	Various	Various Contractors	1179	382	1Q	305	1Q	394	1Q	Continue	2260	0

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Eng Support HSTAMIDS	MIPR	NVESD/CECOM, Ft Belvoir, VA	4533	0		0		0		0	4533	0
Support HSTAMIDS	Various	Various	4367	0		0		0		0	4367	0
ESMC (Mongoose)	MIPR	NVESD/CECOM, Ft Belvoir, VA	2304	100	1Q	0		0		Continue	2404	0
ESMC (Mongoose)	Various	Various	7153	235	1Q	0		0		Continue	7388	0
ASTAMIDS	MIPR	NVESD/CECOM, Ft Belvoir, VA	0	0		750	1Q	1500	1Q	Continue	2250	0
ASTAMIDS	Various	Various	0	0		431	1Q	550	1Q	Continue	981	0
Subtotal:			43992	3181		3709		5639		Continue	56521	0
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
Test support GSTAMIDS Blk 0	MIPR	ATEC, Alexandria, VA	4369	0		0		0		0	4369	0
Test support HSTAMIDS	MIPR	ATEC, Alexandria, VA	2859	0		0		0		0	2859	0
Test Support ESMC	MIPR	ATEC, Alexandria, VA	2371	179		0		0		Continue	2550	0
Test support GSTAMIDS Blk 1/FCS	MIPR	ATEC, Alexandria, VA	40	0	2Q	137	2Q	400	2Q	Continue	577	0
ASTAMIDS	MIPR	ATEC, Alexandria, VA	0	0		300	2Q	1515	2Q	Continue	1815	0
Subtotal:			9639	179		437		1915		Continue	12170	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
Program management	In-House	PM-CCS, Picatinny Arsenal, NJ	4719	419	1-4Q	2243	1-4Q	2344	1-4Q	Continue	9725	0
Program management Contractor support	Various	Various	6115	828	1-4Q	2260	1-4Q	2300	1-4Q	Continue	11503	0

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Subtotal:		10834	1247		4503		4644		Continue 21228 0
Project Total Cost:		198978	14117		28909		36118		Continue 278122 123263

Schedule Profile (R4 Exhibit)																		February 2006																			
BUDGET ACTIVITY 5 - System Development and Demonstration										PE NUMBER AND TITLE 0604808A - Landmine Warfare/Barrier - Eng Dev																		PROJECT 415									
Event Name										FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11			
										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)																																					
(1) IPD																																					
Production																																					
ASTAMIDS																																					
System Integration																																					
Svstem Demonstration																																					
(2) MS C																																					
Production																																					

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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 2005</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>
ASTAMIDS FCS C Complete SDD Integration		1Q					
ASTAMIDS MS C					2Q		