

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE								PROJECT	
4 - Advanced Component Development and Prototypes		0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)								C03	
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
C03	INTERIM ARMORED VEHICLE (IAV) FAMILY	35360	8569	142486	108709						295124

A. Mission Description and Budget Item Justification: This project supports the development of the Family of Stryker vehicles. A critical need exists to improve the deployability and operational effectiveness of rapid response/early entry forces. The Stryker equipped Brigade Combat Team (BCT) will be capable of deployment to anywhere on the globe in a combat ready configuration. Immediate response by a lethal, versatile, tactically agile joint force capable of operational maneuver once in the Area of Operations is essential to fulfilling the warfighting needs of the U. S. Army. The Stryker family includes: Infantry Carrier Vehicle (ICV), Reconnaissance Vehicle (RV), Mobile Gun System (MGS), Mortar Carrier (MC), Commander's Vehicle (CV), Fire Support Vehicle (FSV), Engineer Squad Vehicle (ESV), Medical Evacuation Vehicle (MEV), Anti-Tank Guided Missile Vehicle (ATGM), and Nuclear/Biological/Chemical Reconnaissance (NBC RV). The use of a common platform/common chassis design reduces requirements for repair parts and logistics support in the area of operations. RDTE funding is for integration of the mission equipment packages that make each platform unique and effective, and for vehicle testing to include developmental, production qualification, live fire and initial operational test and evaluation.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Continue redesign efforts on the MGS, i.e., fire control target accuracy, brushless motors and reliability and maintainability (RAM) improvement. Sustain contractor support efforts to government testing for the MGS and NBCRV. Began development and engineering efforts of Block modifications: Survivability Enhancements to include SLAT/Stryker Reactive Armor Tiles(SRAT) armor for the MGS and NBCRV vehicles, Remote Weapon System (RWS) Block II efforts, Power Management initiatives - 500 Amp Alternator, and MGS Environmental Control. Undergo initial developmental and engineering efforts on Stryker's future enhancement programs in the area of Lethality i.e, Masted Sensor for the RV and FSV vehicles, Active Protection System (APS).	1769	1800	137686	75909
Government Testing of Vehicles: Completed all Production Qualification Testing (PQT) efforts. Began Live Fire Test and Evaluation (LFT&E) for both the MGS and NBCRV to include Coupon Testing, Ballistic Armor Characterization Testing (BAC), Control Damage Experiments (CDE), Automatic Fire Extinguishing System (AFES) testing and Full Up System Level (FUSL) testing. Initial Operational Testing and Evaluation (IOT&E) for the NBCRV is complete and a 2QFY07 date is scheduled for the MGS IOTE. All efforts are in preparation of a summer MS III decision.	32155	3028		27600
Government Systems Engineering and Program Management	708	250	4800	5200
Integration of M151E2 Protector on a Light Tactical Vehicle.		1450		
New technologies to include Open Architecture Electronic Enhancements to increase the Strykers' capabilities on the battlefield.		1800		
Small Business Innovative Research (SBIR)/Small Business Technology Transfer Program (STTR)	728	241		
Total	35360	8569	142486	108709

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<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	26332	5415	64372	88
Current BES/President's Budget (FY 2008/2009)	35360	8569	142486	108709
Total Adjustments	9028	3154	78114	108621
Congressional program reductions	-115	-96		
Congressional rescissions	-265			
Congressional increases		3250		
Reprogrammings	9408			
SBIR/STTR Transfer				
Adjustments to Budget Years			78114	108621

FY08/FY09: Funding increased to support development and engineering efforts for lethality and survivability enhancements to the Stryker vehicle on the battlefield, to include the Mast Mounted Sensor Suite; APS (Active Protection System) which is an externally mounted vehicle protection system that identifies, discriminates and intercepts RPG threats. APS will increase Soldier survivability, protect the system & prevent IED hits along with improving mobility with weight reduction; and Power Management which address all current and future power needs including primary power generation, engine off/silent watch power and electrical storage to include Soldier Battery recharge and distribution.

<u>C. 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
PA, WTCV, G85100 Stryker	1318612	902500	1038984	447062	666078	663196	319474	59806	Continuing	Continuing

Comment: Expecting MS III decision in 4QFY07 for the remaining two Stryker variants. Contract award for Full-Rate Production of those vehicle systems will follow immediately.

D. Acquisition Strategy FY06 and FY07 funding supports Live Fire and Initial Operational Test and Evaluation prior to MS III/full-rate production decisions for the NBCRV & MGS in 4QFY07. The NBCRV vehicle will continue Live Fire Testing through 3QFY07 and has completed IOTE testing. The MGS variant is scheduled to complete Live Fire Testing and IOTE in 2QFY07. FY08 and FY09 funding begins future enhancements to the various configurations within the Stryker Family of vehicles in the area of engineering and development efforts as the vehicles continue to be deployed.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
4 - Advanced Component Development and Prototypes			0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)									C03		
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
Stryker Development/Engineering	CPAF	GDLS Sterling Heights, MI	333298	1248	2-4Q	3250	2-3Q	137686	1-3Q	75909	1-3Q		551391	551391
GFE	Requisitions	Various	851										851	851
Prototype Development (8)	Firm Fixed Price	GM GDLS DG L.L.C. Shelby, MI	29215										29215	29215
Training Devices	MIPR	PEO-STRI, Orlando, FL	11420										11420	11420
Miscellaneous Contractor Support			1246										1246	1246
SBIR/STTR			8959	728		241							9928	9928
Subtotal:			384989	1976		3491		137686		75909			604051	604051

Remarks: Stryker development/engineering supports the Stryker Family of Vehicles future enhancements efforts.

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
Other Gov't Agencies	MIPR	TACOM, Warren, MI / Various	17401	945	2-3Q			4800	1-3Q	4700	1-3Q		27846	27846
Source Selection Board		MIPR	2300										2300	2300
Subtotal:			19701	945				4800		4700			30146	30146

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
Developmental System Testing	MIPR	ATEC, APG, MD/Various	102962	1697	1-2Q					10800	1-3Q		115459	115459
Fort Lewis Concept Prove Out	MIPR	BCT Materiel Dev Cell, Ft Lewis, WA	1118										1118	1118

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Procure Test/Evaluation Vehicles	Competitive / CPAF	General Motors/General Dynamics Land Systems Defense Group L.L.C. Shelby, MI	3735										3735	3735
Live Fire Test & Evaluation	MIPR	Army Test Center, Army Research Lab, Army Evaluation Center	18153	8553	2-4Q					3900	1-3Q		30606	30606
Initial Operational Test & Evaluation	MIPR	OTC, Ft. Knox, KY	62356	21481	2-4Q	3028	2-3Q			3700	1-3Q		90565	90565
Contractor Support to Test	CPFF	GM GDLS DG L.L.C. Shelby, MI	20998			1800	2Q			9200	2-3Q		31998	31998
Subtotal:			209322	31731		4828				27600			273481	273481
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
PMO	N/A	TACOM, Warren, MI	9087	708	1Q	250	1-2Q			500	1-2Q		10545	10545
PM Support (Contractor)	Competitive / Various	Warren, MI	2147										2147	2147
Subtotal:			11234	708		250				500			12692	12692
Project Total Cost:			625246	35360		8569		142486		108709			920370	920370

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT																														
4 - Advanced Component Development and Prototypes	0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)	C03																														
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
NBCRV Initial Production	■																															
NBCRV IOT&E					■																											
NBCRV Full Production					■																											
(1) NBCRV MS III									▲																							
MGS IOT&E					■																											
(2) MGS MS III									▲																							
MGS Full Production									■																							

Schedule Detail (R4a Exhibit)

February 2007

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<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>
MS II								
Stryker Initial Production								
IOC								
IOT&E								
MS III								
Full Production	1Q - 4Q	1Q - 4Q	1Q - 3Q					
NBCRV								
NBCRV IPR								
NBCRV Initial Production	1Q - 2Q							
NBCRV IOT&E	4Q	1Q						
NBCRV Full Production		4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
NBCRV MS III		4Q						
MGS Development								
MGS IPR (14)								
MGS Initial Production								
MGS IPR (58)								
MGS IOT&E		2Q						
MGS MS III		4Q						
MGS Full Production		4Q	1Q - 4Q	1Q - 4Q	1Q - 2Q			
NBCRV IPR								
Planned NBCRV Milestone III	4Q							
MGS IPR (Lot 1 - 14 Vehicles)								
MGS IPR (Lot 2 - 58 Vehicles)								
Planned MGS Milestone III	4Q							

