

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R2 Exhibit)</b>							<b>February 2005</b>				
BUDGET ACTIVITY <b>4 - Advanced Component Development and Prototypes</b>				PE NUMBER AND TITLE <b>0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)</b>				PROJECT <b>C03</b>			
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
C03	INTERIM ARMORED VEHICLE (IAV) FAMILY	57621	49712	26712	13216	63398	87	0	0	0	360980
<p><b>A. Mission Description and Budget Item Justification:</b> 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 (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 (NBC) 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 testing.</p>											
<b>Accomplishments/Planned Program</b>							FY 2004	FY 2005	FY 2006	FY 2007	
Continue vehicle design refinement and support to government testing. Complete design integration of NBCRV and HFE redesign. Complete design work on MGS: gun turret drives, fire control target acquisition, vehicle weight reduction, RAM improvement redesign. Development of Block modifications: mounted mortar on Mortar Carrier, Add-on Armor, Integrated Electronic Technical Manuals (IETM). Integrate C4ISR component upgrades, Land Warrior and FCS Spiral Development.							25077	17138	3126	8181	
Government Testing of Vehicles: Completed Production Qualification Test (PQT) for MGS and NBCRV. Perform and complete Development Testing on the MC unique, Ammo Requal, MGS Unique to include additional RAM testing and Remote Weapons Station (RWS). Prepare for separate Live Fire Test & Evaluation (LFT&E) and Initial Operational Testing and Evaluation (IOT&E) on NBCRV and MGS.							27712	26646	23036	4785	
Government Systems Engineering and Program Management							2420	1499	550	250	
Training Devices							713	3000	0	0	
SBIR/STTR							1699	1429	0	0	
<b>Totals</b>							<b>57621</b>	<b>49712</b>	<b>26712</b>	<b>13216</b>	

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<b><u>B. Program Change Summary</u></b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
Previous President's Budget (FY 2005)	51892	7605	88
Current Budget (FY 2006/2007 PB)	49712	26712	13216
Total Adjustments	-2180	19107	13128
Net of Program/Database Changes			
Congressional program reductions	-751		
Congressional rescissions			
Congressional increases			
Reprogrammings			
SBIR/STTR Transfer	-1429		
Adjustments to Budget Years		19107	13128

NBC Reconnaissance Vehicle (NBCRV) and Mobile Gun System (MGS) both required design fixes in FY04 to improve vehicles' performance prior to Low Rate Initial Production Decision (LRIP). As a result, the LRIPs for these 2 vehicles were slipped from early 1QFY04 to late 4QFY04. The shift in the LRIP decision coupled with plans to improve Human Factors and integrate a more advanced Sensor Processing Group on NBCRV have impacted planned testing and NBCRV Milestone III. The shift in the LRIP decision coupled with requirements to improve gun RAM have impacted planned testing of the MGS and the MGS Milestone III decision. Funding in FY05 supports the testing of planned system improvements, specifically RAM testing for the MGS. Funding in FY06 and FY07 supports Live Fire and Operational testing prior to production decisions.

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## C. Other Program Funding Summary

	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
PA, WTCV, G85100 Stryker	962682	1524165	878449	719486	549173	204107	268426	205709	988988	6301185

**D. Acquisition Strategy:** The Brigade Combat Team is providing an accelerated procurement of the Family of Stryker Vehicles. On 16 Nov 00, the program completed a successful MS II DAB and awarded a requirements contract to GM/GDLS Defense Group, L.L.C. with delivery orders for integration efforts and limited rate initial production (LRIP) vehicles. The Army has accepted over 1015 vehicles through Jan of the 2nd qtr of FY05; concurrently, the program has completed Initial Operating Test and Evaluation (IOT&E) for the 8 variants, Live Fire testing, and held a successful MS III DAB in 2nd qtr FY04 for seven of the ten Variants. The remaining three variants are the MC "B"/Mounted Mortar Carrier, the NBCRV and the MGS. The MC "B"/Mounted Mortar Carrier received production approval based on a signed and published ADM the 1st qtr of FY05. The NBCRV and MGS systems received limited LRIP approval by the DAB in the 4th qtr of FY04 with a signed ADM dtd 14 Oct 04. Subsequently, our remaining RDT&E program will complete development on the NBCRV and MGS and a limited scoped IOT&E and Live Fire testing required for each vehicle for their entry in MS III. Work has also begun on block improvements the Family of Stryker will benefit from: add-on armor and integrated electronic technical manuals, Land Warrior integration and FCS Spiral Development. The production of the Add-on-Armor program will begin FY05.

# ARMY RDT&E COST ANALYSIS(R3)

February 2005

BUDGET ACTIVITY

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PROJECT

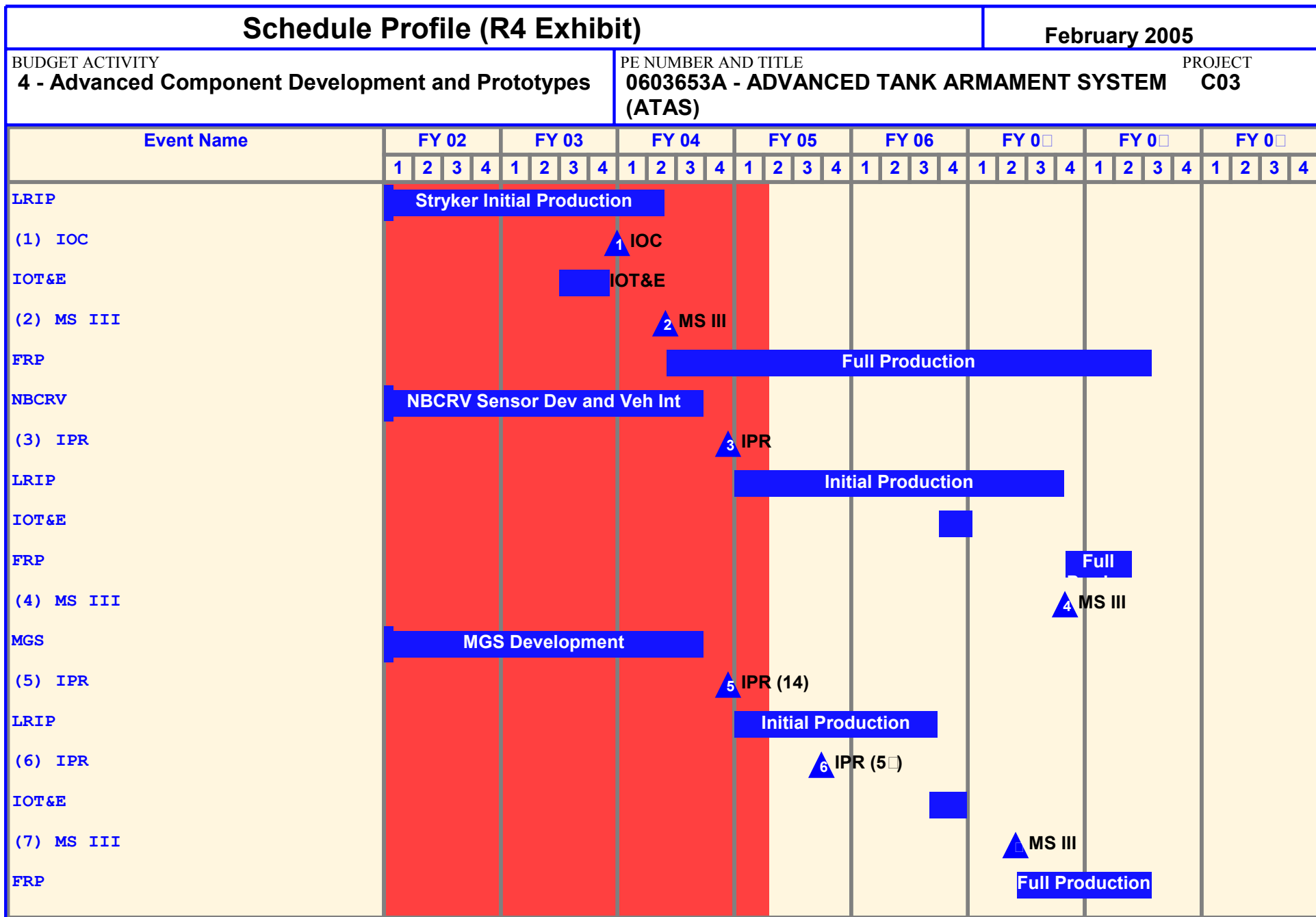
**C03**

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 . IAV Development	CPAF	GDLS Sterling Heights, MI	300198	15968	1-2Q	0		7400	1-2Q	63222	386788	386650
b . GFE	Requisitions	Various	851	0		0		0		0	851	851
c . Prototype Development (8)	Firm Fixed Price	GM GDLS DG L.L.C Shelby, MI	29215	0		0		0		0	29215	29215
d . Training Devices	MIPR	PEO-STRI, Orlando, FL	8420	3000		0		0		0	11420	11420
e . Miscellaneous Contractor Support			1246	0		0		0		0	1246	1246
f . SBIR/STTR			1699	1429		0		0		0	3128	3128
Subtotal:			341629	20397		0		7400		63222	432648	432510

Remarks: Stryker development supports the following 10 vehicles: Infantry Carrier Vehicle (ICV), Reconnaissance Vehicle, Mobile Gun System, Mortar Carrier, Commander's Vehicle, Fire Support Vehicle, Engineer Squad Vehicle, Medical Evacuation Vehicle, Anti-Tank Guided Missile Vehicle, and NBC Reconnaissance Vehicle.

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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 . Other Gov't Agencies	MIPR	TACOM, Warren, MI Various	15288	1074	1-2Q	550	1-2Q	250	1-2Q	263	17425	17621
b . Source Selection Board			2300	0		0		0		0	2300	2300
Subtotal:			17588	1074		550		250		263	19725	19921
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 . Developmental System Testing	MIPR	ATEC, APG, MD/Various	94116	20815	2-3Q	0		0		0	114931	117936
b . Fort Lewis Concept Prove Out	MIPR	BCT Materiel Dev Cell, Ft Lewis, WA	1118	0		0		0		0	1118	1118
c . Procure Test Vehicles	Competitive /CPAF	General Motors/General Dynamics Land Systems Defense Group L.L.C. Shelby, MI	3735	0		0		0		0	3735	3735
d . Live Fire Test & Evaluation	MIPR	Army Test Center, Army Research Lab, Army Evaluation Center - Various	12607	2033	2Q	6895	1Q	2373	1Q	0	23908	23908

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III. Test and Evaluation (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
e . Initial Operational Test & Evaluation	MIPR	OTC, Ft. Knox, KY	58981	3798	3Q	16141	1Q	2412	1Q	0	81332	78983
f . Contractor Support to Test	CPFF	GM GDLS DG L.L.C. Shelby, MI	20414	1170	2Q	3126	2Q	781	2Q	0	25491	24710
Subtotal:			190971	27816		26162		5566		0	250515	250390
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 . PMO	N/A	TACOM, Warren, MI	8610	425	1-2Q	0		0		0	9035	9102
b . Consultant Contract PM Support	Competitive /Various	ICI, Camber, Warren, MI	2147	0		0		0		0	2147	2147
Subtotal:			10757	425		0		0		0	11182	11249
Project Total Cost:			560945	49712		26712		13216		63485	714070	714070



## Schedule Detail (R4a Exhibit)

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<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Stryker Milestone III - 7 Variants	2Q							
NBCRV IPR	4Q							
Planned NBCRV Milestone III				4Q				
MGS IPR (Lot 1)	4Q							
Planned MGS IPR (Lot 2)		3Q						
Planned MGS Milestone III				2Q				

Reflects current program schedule.