

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2004

BUDGET ACTIVITY

4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE

0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)

COST (In Thousands)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	150234	60692	51892	7605	88	21161	92	Continuing	Continuing
C03 INTERIM ARMORED VEHICLE (IAV) FAMILY	150234	60692	51892	7605	88	21161	92	Continuing	Continuing

A. Mission Description and Budget Item Justification: Project C03: A critical need exists for a Stryker vehicle equipped Brigade Combat Team (BCT), capable of deployment anywhere on the globe, in a combat ready configuration. The Stryker family consists of an 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). This system supports the Stryker Brigade Combat Team (SBCT) transition path of the Transformation Campaign Plan (TCP).

B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	143296	61377	52429
Current Budget (FY 2005 PB)	150234	60692	51892
Total Adjustments	6938	-685	-537
Congressional program reductions		-578	
Congressional rescissions			
Congressional increases			
Reprogrammings	6938	-107	
SBIR/STTR Transfer			
Adjustments to Budget Years			-537

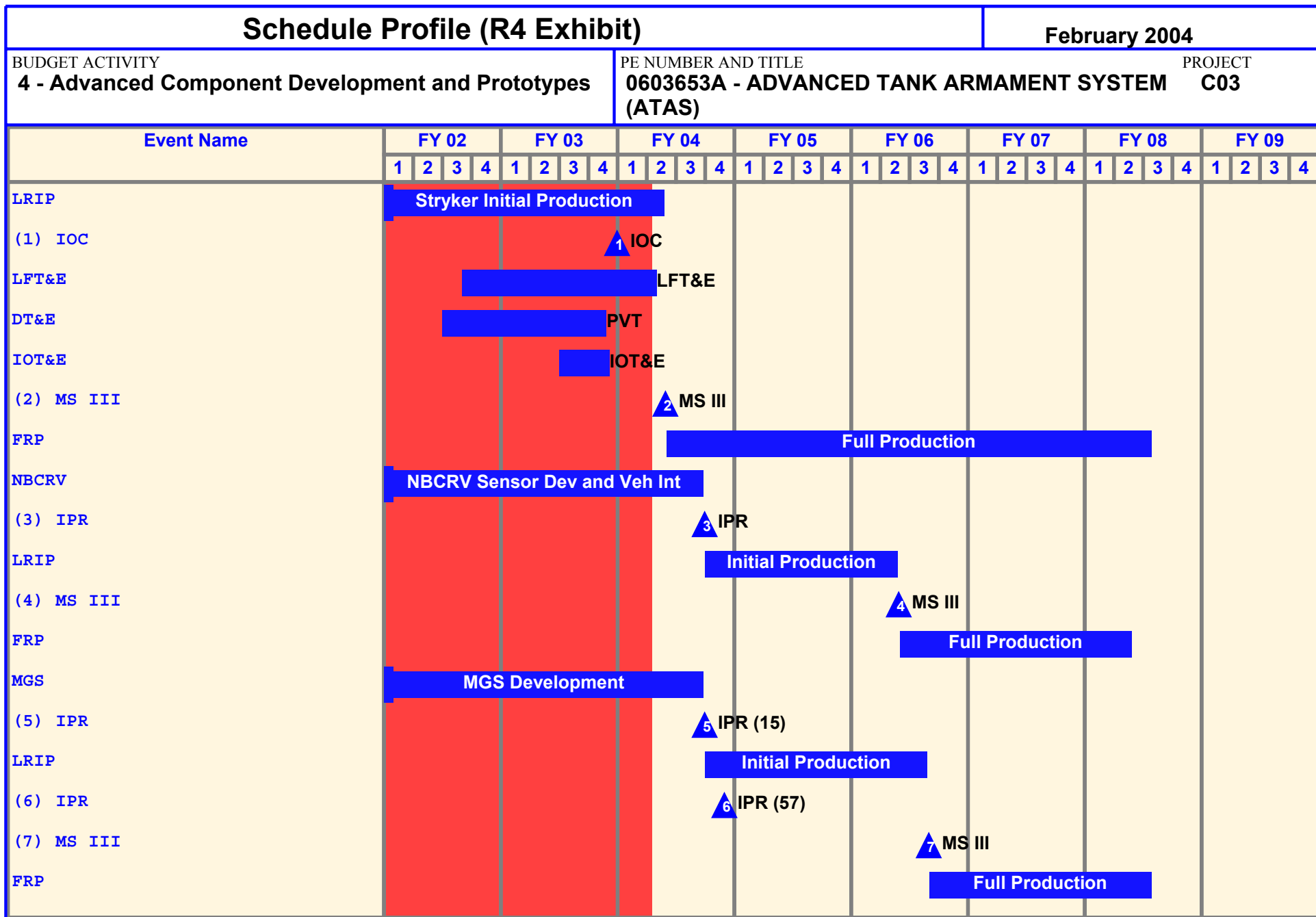
ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004		
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes				PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)				PROJECT C03	
COST (In Thousands)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
C03 INTERIM ARMORED VEHICLE (IAV) FAMILY	150234	60692	51892	7605	88	21161	92	Continuing	Continuing
<p>A. Mission Description and Budget Item Justification: This project supports the development of the 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. This system supports the Stryker Brigade Combat Team (SBCT) transition path of the Transformation Campaign Plan (TCP).</p>									
Accomplishments/Planned Program							FY 2003	FY 2004	FY 2005
Vehicle design refinement and support to government testing. Complete design integration of NBCRV. Complete design work on MGS: gun turret drives, fighting compartment assembly, fire control target acquisition and vehicle weight reduction. Development of Block modifications: mounted mortar on Mortar Carrier, add-on armor, Integrated Electronic Technical Manuals (IETM). Complete weapon integration and design for ATGM and FSV.							46097	24164	14602
Government Testing of Vehicles. Perform Live Fire Test & Evaluation (LFT&E). Perform Development Testing: Production Qualification Test (PQT), MC unique, Ammo Requal, MGS Unique, Remote Weapons Station (RWS). Initial Operational Test & Evaluation (IOT&E) on all variants. User Excursion (UE) and Limited User tests on MC, MGS and NBCRV and separate Live Fire Test & Evaluation (LFT&E), Initial Operational Testing and Evaluation (IOT&E), and Production Qualification Test (PQT) on NBCRV and MGS.							97218	27862	34137
Government Systems Engineering and Program Management							2987	3104	3153
Training Devices							3932	3797	0

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Accomplishments/Planned Program (continued)							FY 2003	FY 2004	FY 2005			
FY04 Small Business Innovative Research Program/Small Business Technology Transfer Program SBIR/STTR							0	1765	0			
Totals							150234	60692	51892			
B. Other Program Funding Summary				FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PA, WTCV, G85100 Interim Armored Vehicle Family				780076	982681	905074	951341	770199	76422	168893	761800	6049801
PA, OPA, W61900 IAV APPLIQUE*				29211	0	0	0	0	0	0	0	46123
<p>*Funding summary represents a portion of the overall funding in W61900, Other Procurement, Army. (FBCB2)</p> <p>C. 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 640 vehicles through the 4th qtr of FY03; concurrently, the program has completed Initial Operating Test and Evaluation (IOT&E) for the 8 variants with Live Fire testing ongoing. A successful MS III DAB approval in 2nd qtr FY04 for eight of the ten Variants is anticipated. The remaining two variants are the NBCRV and the MGS. Both variants are scheduled for LRIP approval by the DAB no earlier than the 3rd qtr FY04. The remaining RDT&E will complete development on the NBCRV and MGS and a limited scope IOT&E 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, a mounted mortar and integrated electronic technical manuals. These block improvements are expected to be cut into production late FY03 and into FY04.</p>												

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes					PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)					PROJECT C03		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . IAV Development	CPAF	GDLS Sterling Heights, MI*	231994	40948	2Q	11582	2Q	8202	2Q	23124	315850	314085
b . GFE	Requisition	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	3775	3932	3Q	3797		0		0	11504	11504
e . Miscellaneous Contractor Support			1246	0		0		0		0	1246	1246
Subtotal:			267081	44880		15379		8202		23124	358666	356901
<p>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.</p> <p>*Effective February 2003, General Motors Defense was acquired by General Dynamics Land Systems. A Ground Combat Systems unit at GDLS was organized integrating the Stryker program offices at Sterling Heights, MI, London, Ontario, and Goleta, CA, into one Stryker Program office managed out of Sterling Heights, MI.</p>												

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Other Gov't Agencies	MIPR	TACOM, Warren, MI Various	11115	2362	2Q	2441	2Q	2480	2Q	1260	19658	19658
b . Source Selection Board			2300	0		0		0		0	2300	2300
Subtotal:			13415	2362		2441		2480		1260	21958	21958
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Developmental System Testing	MIPR	ATEC, APG, MD/Various	25623	45642	2-3Q	16241	2-3Q	3241	2-3Q	1312	92059	92059
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	6218	6389	2-3Q	3648	2-3Q	5305	2-3Q	0	21560	21560

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III. Test and Evaluation (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
e . Initial Operational Test & Evaluation	MIPR	OTC, Ft. Knox, KY	11221	45187	2Q	7973	2-3Q	25591		2565	92537	92537
f . Contractor Support to Test	CPFF	GM GDLS DG L.L.C. Shelby, MI	15265	5149	2Q	14347	2Q	6400	2Q	0	41161	41161
Subtotal:			63180	102367		42209		40537		3877	252170	252170
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PMO	NA	TACOM, Warren, MI	7376	625	1-2Q	663	1-2Q	673	1-2Q	685	10022	10022
b . Consultant Contract PM Support	Competitive /Various	ICI, Camber, Warren, MI	2038	0		0		0		0	2038	2038
Subtotal:			9414	625		663		673		685	12060	12060
Project Total Cost:			353090	150234		60692		51892		28946	644854	643089



Schedule Detail (R4a Exhibit)						February 2004	
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<u>Schedule Detail</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Final Production Technical Data Package Available							
(IOC) Vehicle Delivery							
Begin Testing of Vehicles							
First Unit Equipped (Battalion -)	2Q						
Planned Initial Operational Capability (IOC)	4Q						
Planned Milestone III		2Q					
Reflects current program schedule.							