

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							February 2003				
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes				PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)							
COST (In Thousands)		FY 2002 Actual	FY 2003 Estimate	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		98145	143296	61377	52429	7688	88	21384	93	0	649921
B99	TANK & MEDIUM CALIBER ARMAMENTS	1	0	0	0	0	0	0	0	0	10476
C03	INTERIM ARMORED VEHICLE (IAV) FAMILY	98144	143296	61377	52429	7688	88	21384	93	0	639445
<p><u>A. Mission Description and Budget Item Justification:</u>Project B99: The Tank and Medium Caliber Armaments is an Acquisition Category (ACAT) Level III project that involves several efforts. It looks at promising tank and medium caliber technologies and assesses advantages and disadvantages of each technology, as well as, costs and implementation impacts. If successful, the technology can move into further development or into production. It also supports the International Quadripartite Agreement among the U.S., France, Germany and the United Kingdom for cooperative development/interoperability efforts to reduce risks on Tank and Medium Caliber Ammunition Systems.</p> <p>Project C03: An immediate need exists for a Stryker Vehicle equipped C-130 transportable 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). Strykersupports the Interim transition path of the Transformation Campaign Plan (TCP).</p>											

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)**February 2003****BUDGET ACTIVITY****4 - Advanced Component Development and Prototypes****PE NUMBER AND TITLE****0603653A - ADVANCED TANK ARMAMENT SYSTEM
(ATAS)**

<u>B. Program Change Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	100587	124108	43062	26092
Current Budget (FY 2004/2005 PB)	98145	143296	61377	52429
Total Adjustments	-2442	19188	18315	26337
Congressional program reductions				
Congressional rescissions		-1646		
Congressional increases		25900		
Reprogrammings	-2401	-934		
SBIR/STTR Transfer	-41	-4132		
Adjustments to Budget Years			18315	26337

FY2003 Congressional increase provided funds for the Mobile Gun System (MGS), Stryker Vehicle Testing and for the Common Remote Stabilized Sensor System (CRS3).
Adjustment to Budget Year FY2004 is PBD 105 directed plus-up for increased contract costs in the Stryker Program.
Adjustment to Budget Year FY2005 is Program Objective Memorandum (POM) increase.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003		
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes				PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)				PROJECT C03		
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	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	98144	143296	61377	52429	7688	88	21384	93	0	639445
<p><u>A. Mission Description and Budget Item Justification:</u> This project supports the development of the Stryker Vehicles. An immediate need exists for a rapid force to improve the deployability and operational effectiveness of rapid response/early entry forces. The Stryker equipped C-130 transportable 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 will be used to integrate the mission equipment packages that make each platform unique and effective. This system supports the Interim transition path of the Transformation Campaign Plan (TCP).</p>										
<u>Accomplishments/Planned Program</u>						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
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.						68828	43039	39296	19759	
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. Separate Live Fire Test & Evaluation (LFT&E), Initial Operational Testing and Evaluation (IOT&E), and Production Qualification Test (PQT) on NBCRV and MGS.						22650	90176	18170	28874	
Government Systems Engineering and Program Management						4186	4051	3911	3796	
Training Devices						2480	3930	0	0	
Common Remote Stabilized Sensor System (CRS3)						0	2100	0	0	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes				PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)				PROJECT C03			
<u>Accomplishments/Planned Program (continued)</u>								<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Totals								98144	143296	61377	52429
<u>B. Other Program Funding Summary</u>	<u>FY 2002</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>	<u>To Compl</u>	<u>Total Cost</u>	
PA, WTCV, G85100 Interim Armored Vehicle Family	653315	774776	955027	969773	903365	779889	76365	168393	761800	6042703	
PA, OPA, W61900 IAV APPLIQUE*	16912	14628	14702	14667	15713	14614	9569	7106	0	107911	
<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 400 vehicles through the 2nd qtr of FY03, concurrently; the program is entering Initial Operating Test and Evaluation (IOT&E) and Live fire testing for an anticipated successful MS III DAB approval in 1st qtr FY04 for eight of the ten Variants. The remaining two variants, the MGS and the NBCRV are scheduled for their LRIP approval by the DAB in the 4thqtr FY03 and 1st qtr FY04, respectively. The remaining RDT&E will complete development on the MGS and NBCRV and a limited scope IOT&E for each vehicle for their entry in MS III scheduled for FY05 and FY06, respectively. 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(R-3)									February 2003			
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	GM GDLS DG L.L.C. Shelby, MI	230288	27839	2Q	31696	2Q	14059	2Q	25237	329119	329119
b . GFE	Requisition	Various	851	0		0		0		199	1050	1050
c . Prototype Development (8)	Firm Fixed Price	GM GDLS DG L.L.C Shelby, MI	37220	0		0		0		0	37220	37220
d . Training Devices	MIPR	STRICOM, Orlando, FL	3775	3930	3Q	0		0		0	7705	7705
e . TOW for Missile Developement	Reprogram		13894	0		0		0		0	13894	13894
f . Common Remote Stabilized Sensor System (CRS3)	Unknown	Unknown	0	2100		0		0		0	2100	2100
Subtotal:			286028	33869		31696		14059		25436	391088	391088
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.												

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes					PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)					PROJECT C03		
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	10290	2570	2Q	2404	2Q	2261	2Q	2100	19625	19625
b . Source Selection Board			2300	0		0		0		0	2300	2300
Subtotal:			12590	2570		2404		2261		2100	21925	21925
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	18061	41786	2-3Q	9432	2-3Q	2411	2-3Q	0	71690	71690
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	3715	0		0		0		0	3715	3715
d . Live Fire Test & Evaluation	MIPR	Army Test Center, Army Research Lab, Army Evaluation Center - Various	8352	8557	2-3Q	764	2-3Q	6966	2-3Q	0	24639	24639

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes					PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)					PROJECT C03		
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	11293	39833	2Q	7974	2-3Q	19497	2-3Q	0	78597	78597
f . Contractor Support to Test	CPFF	GM GDLS DG L.L.C. Shelby, MI	16311	15200	2Q	7600	2Q	5700	2Q	0	44811	44811
Subtotal:			58850	105376		25770		34574		0	224570	224570
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	8196	1481	1-2Q	1507	1-2Q	1535	1-2Q	1717	14436	14436
b . Consultant Contract PM Support	Competitive/ Various	ICI, Camber, Warren, MI	2038	0		0		0		0	2038	2038
Subtotal:			10234	1481		1507		1535		1717	16474	16474
Project Total Cost:			367702	143296		61377		52429		29253	654057	654057

Schedule Profile Detail (R-4a Exhibit)						February 2003		
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes				PE NUMBER AND TITLE 0603653A - ADVANCED TANK ARMAMENT SYSTEM (ATAS)			PROJECT C03	

<u>Schedule Detail</u>	<u>FY 2002</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 (ICV)	1Q							
First Vehicle Delivery	2Q							
Begin Testing of Vehicles	3Q							
First Unit Equipped (Battalion -)		2Q						
Planned Initial Operational Capability (IOC)		3Q						
Planned Milestone III			1Q					

Reflects current program schedule.