Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0603653A: ADVANCED TANK ARMAMENT SYSTEM (ATAS)

BA 4: Advanced Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	76.072	89.828	136.302	0.000	136.302	230.561	220.000	190.000	110.000	Continuing	Continuing
C03: INTERIM ARMORED VEHICLE (IAV) FAMILY	13.082	29.116	2.502	0.000	2.502	2.561	0.000	0.000	0.000	Continuing	Continuing
C51: STRYKER A1	62.990	60.712	133.800	0.000	133.800	228.000	220.000	190.000	110.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) supports the development of the Stryker Family of vehicles in two separate projects. A critical need exists to improve the deployability and operational effectiveness of rapid response/early entry forces. The Stryker equipped Brigade Combat Team (BCT) is 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 has been essential in 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 Vehicle (NBCRV). The original Project Code (C03) supports the use of the common platform/common chassis design reducing requirements for repair parts and logistics support in the area of operations. Funding in this project will continue to address Overseas Contingency Operations (OCO), survivability, and Operational Needs Statements (ONS) issues with the Stryker program. The Stryker A1 Modernization (SMOD) Project (C51) addresses current and evolving survivability concerns and results in retaining interoperability with other formations and the ability to integrate spin-outs and technologies. The first increment of the SMOD program will consist of two phases. Phase I will regain the operational envelope lost by the addition of survivability kits by eliminating size, power, and weight challenges caused by the kits. Phase I efforts consist of improved engine/transmission suspension, Height Management System (HMS), Central Tire Inflation System (CTIS), brakes, driveline, Hull structure, seats and environmental. Phase II will provide increased capability and address emerging requirements as well as provide for the mitigat

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0603653A: ADVANCED TANK ARMAMENT SYSTEM (ATAS)

BA 4: Advanced Component Development & Prototypes (ACD&P)

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	79.350	90.299	76.704	0.000	76.704
Current President's Budget	76.072	89.828	136.302	0.000	136.302
Total Adjustments	-3.278	-0.471	59.598	0.000	59.598
 Congressional General Reductions 		0.000			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	-0.471			
 Congressional Adds 		0.000			
 Congressional Directed Transfers 		0.000			
 Reprogrammings 	-2.000	0.000			
• SBIR/STTR Transfer	-2.175	0.000			
 Adjustments to Budget Years 	0.897	0.000	59.598	0.000	59.598

Change Summary Explanation

Change Summary Explanation - Funding: FY11 reflects a funding increase to contunue the Stryker Modernization (SMOD) Program.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army									DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0603653A: ADVANCED TANK ARMAMENT C03:					PROJECT C03: INTERIM ARMORED VEHICLE (IAV) FAMILY			
COST (\$ in Millions) FY 2009 Actual Estimate			FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost		
C03: INTERIM ARMORED VEHICLE (IAV) FAMILY	13.082	29.116	2.502	0.000	2.502	2.561	0.000	0.000	0.000	Continuing	Continuing		
Quantity of RDT&E Articles													

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) is 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 has been essential in 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 Vehicle (NBCRV). The use of the common platform/common chassis design reduces requirements for repair parts and logistics support in the area of operations. Funding in this project will continue to address Overseas Contingency Operations (OCO), survivability, and Operational Needs Statements (ONS) issues with the Stryker program.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	0.510	5.369	0.000	0.000	0.000
NBCRV Control Damage Experiment started 1QFY10 and will be followed by the Operational Test and Evaluation (OT&E) in preparation for the upcoming NBCRV Milestone C Full-Rate Production Decision in 2QFY11.					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603653A: ADVANCED TANK AN SYSTEM (ATAS)	RMAMENT	PROJECT C03: INTERIM ARMORED VEHICLE (IAV) FAMILY				
B. Accomplishments/Planned Program (\$ in Millions)	,		'				
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #2		0.535	0.000	0.000	0.000	0.000	
Government testing of OCO, Survivability and ONS efforts.							
FY 2009 Accomplishments: FY 2009							
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #3		0.120	0.950	2.104	0.000	2.104	
Undergo development and engineering for OCO, survivability and ON	S issues for the Stryker Base Vehicles.						
FY 2009 Accomplishments: FY 2009							

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603653A: ADVANCED TANK A SYSTEM (ATAS)	ARMAMENT	PROJECT C03: INTERIF	TERIM ARMORED VEHICLE (IAV)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #4		3.171	0.000	0.000	0.000	0.000
Development and engineering for Remote Weapon System (RWS) Bl	ock II effort.					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #5		4.899	12.470	0.000	0.000	0.000
Undergo development and engineering of Stryker Reactive Armor Til	es II(SRAT II)					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603653A: ADVANCED TANK ARM SYSTEM (ATAS)	MAMENT	PROJECT C03: INTERI FAMILY	INTERIM ARMORED VEHICLE (IAV		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #6		1.647	9.022	0.000	0.000	0.000
SRAT II Government testing begins in FY09, completes in FY10.						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #7		0.175	0.000	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	ruary 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603653A: ADVANCED TANK ARM SYSTEM (ATAS)	MAMENT	PROJECT C03: INTERIM ARMORED VEHICLE (IAV) FAMILY				
B. Accomplishments/Planned Program (\$ in Millions)							
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Contractor support to tests. To include NBCRV Operational Test and Eval II Testing.	uation (OTE), OCO Testing and SRAT						
FY 2009 Accomplishments: FY 2009							
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #8		0.425	0.500	0.398	0.000	0.398	
Government Systems Engineering and Program Management							
FY 2009 Accomplishments: FY 2009							
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603653A: ADVANCED TANK ARI SYSTEM (ATAS)	MAMENT	PROJECT C03: INTERI FAMILY	M ARMOREI	D VEHICLE (IAV)
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #9		1.600	0.000	0.000	0.000	0.000
Active Protection System (APS) Radar						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #10		0.000	0.805	0.000	0.000	0.000
Small Business Innovative Research/Small Business Technology Trans	sfer Program (SBIR/STTR)					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0603653A: ADVANCED TANK ARMAMENT	C03: INTER	IM ARMORED VEHICLE (IAV)
BA 4: Advanced Component Development & Prototypes (ACD&P)	SYSTEM (ATAS)	FAMILY	

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals		29.116	2.502	0.000	2.502

C. Other Program Funding Summary (\$ in Millions)

			FY 2011	<u>FY 2011</u>	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	$\overline{\mathbf{OCO}}$	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: PA, WTCV, G85100 Stryker	1,498.984	512.774	299.545	0.000	299.545	0.000	0.000	0.000	0.000	0	2,311.303

D. Acquisition Strategy

Funding continues engineering and development efforts related to Overseas Contingency Operations (OCO), survivability, and Operational Needs Statements (ONS) issues. As the Stryker family of vehicles continues to be deployed, we will explore, enhance and increase the survivability of the Stryker. Examples of improvement are the vehicle's Hull Protection, Tire Fire Suppression Kits, Improved Common Ballistic Shields, Belly Armor, and Stryker Reactive Armor Tiles II (SRAT II) initiatives.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603653A: ADVANCED TANK ARMAMENT

SYSTEM (ATAS)

PROJECT

C03: INTERIM ARMORED VEHICLE (IAV)

FAMILY

Product Development (\$ in Millions)

				FY :	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Stryker Development/ Engineering	C/CPFF	GDLS Sterling Heights MI	382.255	13.420		2.104		0.000		2.104	Continuing	Continuing	406.774
Active Protection System (APS)Radar	C/CPFF	GSLS Sterling Heights MI	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	1.600
SBIR/SBTTP	С	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.805		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	382.255	14.225		2.104		0.000		2.104			408.374

Remarks

Test and Evaluation (\$ in Millions)

Cost Category Item	1 cot and 2 valuation (, 111 1/11111011	5)											
Cost Category Item					FY	2010				-	· ·			
NBCRV Operational Test & C UtahArmy Test & 105.869 5.369 0.000 0.000 0.000 Continuing Continuing 115.0	Cost Category Item	Method	Activity &		Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost		Total Cost	Target Value of Contract
	1		UtahArmy Test &	105.869	5.369		0.000		0.000		0.000	Continuing	Continuing	115.087
OCO and SRAT II Testing C 0.000 9.022 0.000 0.000 Continuing Continuing 9.9	OCO and SRAT II Testing	С		0.000	9.022		0.000		0.000		0.000	Continuing	Continuing	9.933

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603653A: ADVANCED TANK ARMAMENT SYSTEM (ATAS) PROJECT C03: INTERIM ARMORED VEHICLE (IAV) FAMILY

Test and Evaluation (\$ in Millions)

				FY	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Army Test & Evaluation Command DTC, MD, OTC, TX, AEC, VA											
Contractor Support to Test	C/CPFF	GM GDLS DG L.L.C. Shelby MI	22.269	0.000		0.000		0.000		0.000	Continuing	Continuing	22.671
		Subtotal	128.138	14.391		0.000		0.000		0.000			147.691

Remarks

Management Services (\$ in Millions)

				FY 2	2010	FY 2 Ba	2011 ase	FY:	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Office (PMO)	C	TACOM Warren, MI	14.299	0.500		0.398		0.000		0.398	Continuing	Continuing	16.227
		Subtotal	14.299	0.500		0.398		0.000		0.398			16.227

UNCLASSIFIED

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0603653A: ADVANCED TANK ARMAMENT	C03: INTERIM ARMORED VEHICLE (IAV)
BA 4: Advanced Component Development & Prototypes (ACD&P)	SYSTEM (ATAS)	FAMILY

	Total Prior Years Cost	FY 2010	FY :		2011 CO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	524.692	29.116	2.502	0.000		2.502			572.292

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603653A: ADVANCED TANK ARMAMENT

SYSTEM (ATAS)

PROJECT

C03: INTERIM ARMORED VEHICLE (IAV)

FAMILY

	I	FY 2009				FY 2010		I	Y 2	201	1	I	Y 2	201	2	FY 2013		3	FY 2014			4	F	Y 2	2015	5		
	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 Extended LRIP Production		#	#	#	#	#	#	#	#	#	#	#	#	#														
NBCRV OT&E							#																					
NBCRV Full-Rate Production Decision (FRPD)									#																			
MGS Extended LRIP Production					#	#	#	#	#																			
MGS ECO Testing	#	#	#	#	#																							
MGS Full-Rate Production Decision (T)							#																					
Stryker Reactive Armor Tiles II (SRAT II) Development Effort	#	#	#	#																								
SRAT II Testing		#	#	#	#	#	#																					

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0603653A: ADVANCED TANK ARMAMENT	C03: INTER	IM ARMORED VEHICLE (IAV)
BA 4: Advanced Component Development & Prototypes (ACD&P)	SYSTEM (ATAS)	FAMILY	

Schedule Details

	Sta	art	En	ıd
Event	Quarter	Year	Quarter	Year
NBCRV Extended LRIP Production	2	2009	2	2012
NBCRV OT&E	3	2010	3	2010
NBCRV Full-Rate Production Decision (FRPD)	1	2011	1	2011
MGS Extended LRIP Production	1	2010	1	2011
MGS ECO Testing	1	2009	1	2010
MGS Full-Rate Production Decision (T)	3	2010	3	2010
Stryker Reactive Armor Tiles II (SRAT II) Development Effort	1	2009	4	2009
SRAT II Testing	2	2009	3	2010

DATE: D.1

Exhibit R-2A, RD I & Project Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0603653A: ADVANCED TANK ARMAMENT	C51: STRYKER A1
BA 4: Advanced Component Development & Prototypes (ACD&P)	SYSTEM (ATAS)	
EV 2011	EV 2011 EV 2011	

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
C51: STRYKER A1	62.990	60.712	133.800	0.000	133.800	228.000	220.000	190.000	110.000	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Stryker Modernization (SMOD) Program will address current and evolving survivability concerns and result in retaining interoperability with other formations and the ability to integrate spin-outs and technologies. The first increment of the SMOD program will consist of two phases. Phase I will regain the operational envelope lost by the addition of survivability kits by eliminating size, power, and weight challenges caused by the kits. Phase I efforts consist of improved engine/transmission suspension, Height Management System (HMS), Central Tire Inflation System (CTIS), brakes, driveline, Hull structure, seats and environmental. Phase II will provide increased capability and address emerging requirements as well as provide for the mitigation of MGS long-term deficiencies. Phase II efforts consist of 360 degree situational awareness, shot detection, improved Remote Weapon Station (RWS), embedded training, and data/video network.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	60.842	51.882	126.448	0.000	126.448
Support the SMOD Program (Phase I and Phase II). SMOD target date for Phase I MS B is 4QFY10 and MS C is 4QFY14. SMOD target date for Phase II MS B is 4QFY13 and MS C is 3QFY17. Will develop system performance specifications, conduct trade studies, develop concept designs, undergo modeling and simulation activities and conduct technical demonstrations. FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: Febr	ruary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603653A: ADVANCED TANK ARMAMENT SYSTEM (ATAS)	PROJECT C51: STRYI			
B. Accomplishments/Planned Program (\$ in Millions)		'			
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #2	0.3	73 1.294	0.000	0.000	0.000
Government Testing of SMOD.					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #3	1.7'	5.826	7.352	0.000	7.352
Government Systems Engineering and Program Management					
FY 2009 Accomplishments: FY 2009					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603653A: ADVANCED TANK ARM. SYSTEM (ATAS)	AMENT	PROJECT C51: STRYK	ER A1		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #4		0.000	1.710	0.000	0.000	0.000
Small Business Innovative Research/Small Business Technology Tra	nsfer Program (SBIR/STTR).					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
	Accomplishments/Planned Programs Subtotals	62.990	60.712	133.800	0.000	133.800

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army
BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603653A: ADVANCED TANK ARMAMENT
SYSTEM (ATAS)

DATE: February 2010

PROJECT
C51: STRYKER A1

C. Other Program Funding Summary (\$ in Millions)

			FY 2011	FY 2011	<u>FY 2011</u>					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	$\overline{\mathbf{OCO}}$	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: No title specified	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0

D. Acquisition Strategy

Funding supports continuing Technology Development. Phase II funding also supports the mitigation of Mobile Gun System (MGS) long-term deficiencies as outlined in 5 Aug 08 ADM.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603653A: ADVANCED TANK ARMAMENT

SYSTEM (ATAS)

PROJECT

C51: STRYKER A1

Product Development (\$ in Millions)

				FY :	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Stryker Development/ Engineering SMOD and Mobile Gun System (MGS) Deficiencies	C/CPFF	GDLS Sterling Heights MI	95.859	51.882		126.448		0.000		126.448	Continuing	Continuing	336.741
SBIR/SBTTP	С	Nothing entered for Activity and Location. Location could not be determined.	0.000	1.710		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	95.859	53.592		126.448		0.000		126.448			336.741

Remarks

Support (\$ in Millions)

Support (\$ in Millions	')												
				FY 2	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Other Government Agencies	С	Various Location could not be determined.	0.508	0.000		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.508	0.000		0.000		0.000		0.000			0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603653A: ADVANCED TANK ARMAMENT

SYSTEM (ATAS)

PROJECT

C51: STRYKER A1

Test and Evaluation (\$ in Millions)

				FY	2010	FY 2 Ba	2011 ase	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Stryker Modernization Testing	С	Various Location could not be determined.	0.000	1.294		0.000		0.000		0.000	Continuing	Continuing	1.667
		Subtotal	0.000	1.294		0.000		0.000		0.000			1.667

Remarks

Management Services (\$ in Millions)

				FY 2	2010		2011 ase	FY :	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Office (PMO)	С	TACOM Warren, MI	0.000	5.826		7.352		0.000		7.352	Continuing	Continuing	14.747
		Subtotal	0.000	5.826		7.352		0.000		7.352			14.747

Remarks

	Total Prior Years Cost	FY 2	2010			2011 CO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	96.367	60.712		133.800	0.000		133.800	-		353.155

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603653A: ADVANCED TANK ARMAMENT

SYSTEM (ATAS)

PROJECT

C51: STRYKER A1

	FY 2009		J	FY:	201	0 FY 2011					FY 2012			2	FY 2013			3	FY 2014			4	FY 2015			5		
	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
Stryker Modernization Program (SMOD) Phase I Preliminary Design Review (PDR)							#																					
Stryker Modernization Program (SMOD) Phase I Milestone B								#																				
Stryker Modernization Program (SMOD) Phase I Critical Design Review (CDR)													#															
Stryker Modernization Program (SMOD) Phase I Milestone C																							#					
Stryker Modernization Program (SMOD) Phase I Testing																	#	#	#	#	#	#	#	#	#	#	#	#
Stryker Modernization Program (SMOD) Phase II Preliminary Design Review (PDR)																	#											
Stryker Modernization Program (SMOD) Phase II Milestone B																			#									
Stryker Modernization Program (SMOD) Phase II Critical Design Review (CDR)																							#					

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603653A: ADVANCED TANK ARMAMENT

SYSTEM (ATAS)

PROJECT

C51: STRYKER A1

Schedule Details

	Sta	art	E	nd
Event	Quarter	Year	Quarter	Year
Stryker Modernization Program (SMOD) Phase I Preliminary Design Review (PDR)	3	2010	3	2010
Stryker Modernization Program (SMOD) Phase I Milestone B	4	2010	4	2010
Stryker Modernization Program (SMOD) Phase I Critical Design Review (CDR)	1	2012	1	2012
Stryker Modernization Program (SMOD) Phase I Milestone C	3	2014	3	2014
Stryker Modernization Program (SMOD) Phase I Testing	1	2013	4	2015
Stryker Modernization Program (SMOD) Phase II Preliminary Design Review (PDR)	1	2013	1	2013
Stryker Modernization Program (SMOD) Phase II Milestone B	3	2013	3	2013
Stryker Modernization Program (SMOD) Phase II Critical Design Review (CDR)	3	2014	3	2014