

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
Fiscal Year 2009 Global War on Terrorism Supplemental Request

WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION

February 2009

DEPARTMENT OF THE ARMY
 FISCAL YEAR (FY) 2009 PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES PROGRAM GLOBAL WAR ON TERROR (GWOT)

EXHIBIT P-1
 February 2009

APPROPRIATION: **PROCUREMENT OF W&TCV, ARMY**

Activity: 01. **Tracked Combat Vehicles**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 2009 Total Requirement		FY 2009 Bridge Enacted		FY 2009 Remaining GWOT Request	
				QTY	COST	QTY	COST	QTY	COST
				(5)	(6)	(7)	(8)	(9)	(10)
	TRACKED COMBAT VEHICLES								
5	STRYKER VEHICLE (G85100)	B			360,787		248,053		112,734
					-----		-----		-----
	SUB-ACTIVITY TOTAL				360,787		248,053		112,734
	MODIFICATION OF TRACKED COMBAT VEHICLES								
12	BRADLEY PROGRAM (MOD) (GZ2400)				541,000				541,000
14	IMPROVED RECOVERY VEHICLE (M88A2 HERCULES) (GA0570)	A			236,800				236,800
18	M1 ABRAMS TANK (MOD) (GA0700)				425,900		47,900		378,000
20	ABRAMS UPGRADE PROGRAM (GA0750)				230,400		130,400		100,000
					-----		-----		-----
	SUB-ACTIVITY TOTAL				1,434,100		178,300		1,255,800
	ACTIVITY TOTAL				1,794,887		426,353		1,368,534

DEPARTMENT OF THE ARMY

FISCAL YEAR (FY) 2009 PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES PROGRAM GLOBAL WAR ON TERROR (GWOT)
APPROPRIATION: **PROCUREMENT OF W&TCV, ARMY** **Activity:**

EXHIBIT P-1
 February 2009

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 2009 Total Requirement		FY 2009 Bridge Enacted		FY 2009 GWOT Supp Request	
				QTY	COST	QTY	COST	QTY	COST
				(5)	(6)	(7)	(8)	(9)	(10)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	WEAPONS AND OTHER COMBAT VEHICLES								
24	M240 MEDIUM MACHINE GUN (7.62mm) (G13000)	A			22,837				22,837
34	COMMON REMOTELY OPERATED WEAPONS STATION (CROWS) (G04700)	A			279,500				279,500
	SUB-ACTIVITY TOTAL				302,337				302,337
	MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES								
39	M2 50 CAL MACHINE GUN MODS (GB4000)	B			12,500				12,500
	SUB-ACTIVITY TOTAL				12,500				12,500
	SUPPORT EQUIPMENT AND FACILITIES								
	ACTIVITY TOTAL				314,837				314,837
APPROPRIATION TOTAL					2,109,724		426,353		1,683,371

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Exhibit P-40, Budget Item Justification Sheet

Date: February 2009

Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles				P-1 Item Nomenclature STRYKER VEHICLE (G85100)						
Program Elements for Code B Items: 0603653A/C03		Code: A		Other Related Program Elements:						
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				6						6
Gross Cost				112.7						112.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				112.7						112.7
Initial Spares										
Total Proc Cost				112.7						112.7
Flyaway U/C										
Weapon System Proc U/C				18.8						18.8

Description:

A dynamic asymmetric threat and operational environment demands full spectrum, strategically responsive, agile and dominant land forces. Immediate response by a lethal, versatile, tactically agile joint force capable of operational maneuver is essential to fulfilling the Army's Warfighting needs. The Stryker-equipped Brigade Combat Team (BCT) is this force. The use of a common platform/common chassis design reduces requirements for repair parts and logistics support in the area of operations.

The BCT, equipped with Stryker Vehicles can be used across the full spectrum of military operations. The Stryker Brigade Combat Team deploys rapidly and conducts effective combat operations immediately on arrival to prevent, contain, stabilize, or resolve a conflict through shaping and decisive operations. Configurations of Stryker Vehicles are:

Infantry Carrier: The Infantry Carrier Vehicle (ICV) carries an infantry squad with individual equipment. The ICV also provides protected transport and supporting fires for the infantry squad during dismounted assault.

Reconnaissance Vehicle: The Reconnaissance Vehicle (RV) provides force situational awareness, gathering and transmitting real time intelligence while moving throughout the battlefield in close, complex, and urban terrain.

Mobile Gun System: The Mobile Gun System (MGS) supports dismounted infantry and engages the enemy in close combat in order to clear opposition and permit rapid movement allowing the force to maintain the initiative, occupy and/or secure key objectives, and defeat strong points.

Mortar Carrier: The Mortar Carrier (MC) will support infantry units with screening obscurants, suppressive forces and on-call supporting fires. 120mm, 81mm, and 60mm mortars provide complimentary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault.

Commander's Vehicle: The Commander's Vehicle (CV) provides the brigade commanders and infantry battalion commanders with the means to receive information and data, analyze, prepare and transmit data, and control the forces/functions carrying out combat missions.

Fire Support Vehicle: The Fire Support Vehicle (FSV) provides automated enhanced surveillance, target acquisition, target identification, target tracking, target designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.

Engineer Squad Vehicle: The Engineer Squad Vehicle (ESV) provides maneuver/mobility support capabilities which include obstacle clearing, in-stride breaching of surface mines, proofing of subsurface mines, and smoke generation for local protection.

Medical Evacuation Vehicle: The Medical Evacuation Vehicle (MEV) is the Battalion Aid Station for brigade units, providing treatment for serious injury and advanced trauma cases.

Antitank Guided Missile Vehicle: The Antitank Guided Missile Vehicle (ATGM) is the brigade's primary tank killing system. The ATGM reinforces the brigade's infantry battalion, reinforces the brigade reconnaissance squadron, and provides long-range direct fires.

NBC Reconnaissance Vehicle: The Nuclear, Biological, Chemical Reconnaissance Vehicle (NBCRV) provides on the move and remote near-real-time nuclear, biological and chemical detection and surveillance to supply battlefield visualization of NBC hazards.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2009

Appropriation / Budget Activity / Serial No:
Procurement of W&TCV, Army / 1 / Tracked combat vehicles

P-1 Item Nomenclature
STRYKER VEHICLE (G85100)

Program Elements for Code B Items:
0603653A/C03

Code: A

Other Related Program Elements:

Justification:

FY2009 Global War on Terrorism (GWOT) funding procures the following items: Qty: 6 Stryker MGS Vehicles for the in-theater Ready to Fight (RTF) fleet in support of deployed Stryker Brigades; Government Furnished Equipment (GFE) to support battle losses; and Survivability Enhancements for Stryker Vehicles.

**FY2009 Enacted Bridge not included in the total in the above table.

	OIF	OEF	TOTAL
FY2009 Total Requirement	\$248.053 Million	\$112.734 Million	\$360.787 Million
FY2009 Bridge Enacted**	\$248.053 Million	\$ 0.000 Million	\$248.053 Million
FY2009 Remaining GWOT Request	\$ 0.000 Million	\$112.734 Million	\$112.734 Million

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: STRYKER VEHICLE (G85100)			Weapon System Type:		Date: February 2009	
WTCV Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
FY09 GWOT Request											
-Infantry Carrier Vehicle (ICV)		A									
-ICV Block Improvements											
-Reconnaissance Vehicle (RV)		A									
-RV Block Improvements											
-Anti-Tank Guided Missile Vehicle (ATGM)		A									
-ATGM Block Improvements											
-Mortar Carrier (MC)		A									
-MC Block Improvements											
-Fire Support Vehicle (FSV)		A									
-FSV Block Improvements											
-Engineer Squad Vehicle (ESV)		A									
-ESV Block Improvements											
-Commander's Vehicle (CV)		A									
-CV Block Improvements											
-Medical Evacuation Vehicle (MEV)		A									
-MEV Block Improvements											
-NBC Reconnaissance Vehicle (NBCRV)		A									
-NBCRV Block Improvements											
-Mobile Gun System (MGS)		A						40829	6	6805	
-MGS Block Improvements											
Surv Enhance (SRAT/DEK/SLAT/CBS/HPK/MPK)								65870			
GFE (ASIOE/COEI/AAL)								1409			
Engineering Change Order (ECO)								590			
Basic Issue Items (BII)								25			
Government Test											
Contractor Support to Test											
Comparison Evaluation											
Refurbishment of Test Vehicles											
Program Management Support (Govt)											
Program Management Support (Contractor)											

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles	P-1 Line Item Nomenclature: STRYKER VEHICLE (G85100)			Weapon System Type:	Date: February 2009					
WTCV Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Logistics Support (Contractor)											
System Fielding Support									3703		
Vehicle Retrofit/OIF Fixes											
Post Production Mods (unscheduled mod)											
Initial Spares/ASL									308		
Support Equipment (STTE)											
Training Devices											
System Technical Support (STS)											
Software Support											
Integrated Data Environment											
Product Improvement Program											
Facilitization											
Mounted Mortar											
Digital Wiring Schematics											
Total:									112734		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles			Weapon System Type:		P-1 Line Item Nomenclature: STRYKER VEHICLE (G85100)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY09 GWOT Request FY 2009 GWOT	GM GDLS Defense Group L.L.C. Shelby Township, MI	SS/FFP/2-5	TACOM	Jul 09	Apr 11	6	6805	NA	NA	

REMARKS: Unit cost does not include Block Improvements

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
STRYKER VEHICLE (G85100)

Date: February 2009

COST ELEMENTS						Fiscal Year 11													Fiscal Year 12													Later
MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11													Calendar Year 12													
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
FY09 GWOT Request																																
1	FY 09 GWOT	A	6	0	6																							0				
Total																																
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GM GDLS Defense Group L.L.C., Shelby Township, MI	20	240	720		1	Initial	8	4	11	15	Normal LT for the MGS is 21 months, driven by the purchase of long-lead requirements (titanium).
							Reorder	0	10	21	31	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet							Date: February 2009			
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles					P-1 Item Nomenclature BRADLEY PROGRAM (MOD) (GZ2400)					
Program Elements for Code B Items:			Code: A		Other Related Program Elements:					
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost				541.0						541.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				541.0						541.0
Initial Spares										
Total Proc Cost				541.0						541.0
Flyaway U/C										
Weapon System Proc U/C										
Description: This program procures Bradley Urban Survivability Kit (BUSK) components developed in response to the Joint Trauma Analysis and Prevention of Injury in Combat analysis on soldier fatalities in past Bradley related Improvised Explosive Device (IED) incidents in theater. Testing on the latest BUSK initiatives significantly reduces the risk of fire related deaths resulting from a Bradley IED incident. Includes Bradley Reactive Armor Side Skirts (BRASS) procurement required to satisfy an Operational Needs Statement validated by the AR2B for 1200 armored kits to defeat the Explosively Formed Projectile threat in the vehicle sponsor area.										
Justification: FY2009 Global War on Terrorism (GWOT) procures 48 sets of Bradley reactive Armor Title (BRAT) and additional Bradley Urban Survivability Kits (BUSK).										
	OIF	OEF	TOTAL							
FY2009 Total Requirement	\$541.000 Million	\$0.000 Million	\$541.000 Million							
FY2009 Bridge Enacted	\$ 0.000 Million	\$0.000 Million	\$ 0.000 Million							
FY2009 Remaining GWOT Request	\$541.000 Million	\$0.000 Million	\$541.000 Million							

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2009

Appropriation / Budget Activity / Serial No:
Procurement of W&TCV, Army / 1 / Tracked combat vehicles

P-1 Item Nomenclature
BRADLEY PROGRAM (MOD) (GZ2400)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Bradley Reactive Armor											
1-84-05-4038	Operational	0.0	0.0	0.0	186.0	0.0	0.0	0.0	0.0	0.0	186.0
High Priority Improvements											
1-98-05-4550	Operational	0.0	0.0	0.0	355.0	0.0	0.0	0.0	0.0	0.0	355.0
Totals		0.0	0.0	0.0	541.0	0.0	0.0	0.0	0.0	0.0	541.0

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: Bradley Reactive Armor [MOD 1] 1-84-05-4038

MODELS OF SYSTEM AFFECTED: Bradley of Family Vehicles Fleet

DESCRIPTION / JUSTIFICATION:
 Bradley Reactive Armor tiles (BRAT) are one of the High Survivability improvements to the Bradley Fighting Vehicle System (BFVS). The tiles provide increased armor protection and crew survivability against shaped charge threats, including hand held anti-tank Chemical energy Shape Charges and other classes of other warheads as specified in the BFVS material need area. There are 4 configurations of tiles covering the vehicle front, sides and turret.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 Critical Design Review: 3Q08
 Contractor Test and Evaluation: 1Q04
 Development Test and Evaluation: 1Q04
 Initial Operational Test and Evaluation: N/A
 IPR Production Decision: 1Q04
 TDP Available: Yes

Installation Schedule

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs												100	166	166	166							
Outputs																100	166	166	166			

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						598
Outputs																						598

METHOD OF IMPLEMENTATION: Troop Installed ADMINISTRATIVE LEADTIME: 10 months PRODUCTION LEADTIME: 12 months

Contract Dates: FY 2008 - FY 2009 - Jul 09 FY 2010 - N/A

Delivery Dates: FY 2008 - FY 2009 - Jul 10 FY 2010 - N/A

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): Bradley Reactive Armor [MOD 1] 1-84-05-4038

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	RDT&E																			
Procurement																				
FY2009 GWOT Request																				
Kit Quantity							598	185.0											598	185.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Facilitization																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other								1.0												1.0
Interim Contractor Support																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits									100		498								598	
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	100	0.0	498	0.0	0	0.0	0	0.0	0	0.0	598	0.0
Total Procurement Cost		0.0		0.0		0.0		186.0		0.0		0.0		0.0		0.0		0.0		186.0

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: High Priority Improvements [MOD 2] 1-98-05-4550

MODELS OF SYSTEM AFFECTED: Bradley Family of Vehicles Fleet

DESCRIPTION / JUSTIFICATION:

This program procures modifications to the Bradley vehicle fleet. The modifications include the addition of Bradley Urban Survivability Kit (BUSK) upgrades, a vehicle power train upgrade to support BUSK initiatives, electrical power and common modular power upgrades to provide a common power architecture with other Heavy Brigade Combat Team (HBCT) platforms. It also includes improved overall power system management and vehicle health management upgrades to improve embedded diagnostic and prognostic capability, eliminate obsolete Automated Test Equipment and implemented conditioned based maintenance. Installation schedule is not provided: quantities are not listed as they will vary depending on individual vehicle configuration. Contract dates will likely also vary by item.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2008 - FY 2009 - FY 2010 -
 Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): High Priority Improvements [MOD 2] 1-98-05-4550

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
FY2009 Base Request																				
Other High Priority Mods																				
Urban Survivability Mods																				
FY2009 GWOT Request								355.0												355.0
Urban Survivability Mods																				
Installation of Hardware																				
FY 2005 & Prior Equip -- Kits																				
FY 2006 -- Kits																				
FY 2007 Equip -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits																				
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY2010 Equip-- Kits																				
2011 Equip -- kits																				
TOC Equip -- kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		0.0		0.0		0.0		355.0		0.0		0.0		0.0		0.0		0.0		355.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2009

Appropriation / Budget Activity / Serial No:
Procurement of W&TCV, Army / 1 / Tracked combat vehicles

P-1 Item Nomenclature
IMPROVED RECOVERY VEHICLE (M88A2 HERCULES) (GA0570)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				81						81
Gross Cost				236.8						236.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				236.8						236.8
Initial Spares										
Total Proc Cost				236.8						236.8
Flyaway U/C										
Weapon System Proc U/C				2.9						2.9

Description:

The M88A2 Heavy Equipment Recovery Combat Utility Lift and Evacuation System (HERCULES), is an armored full tracked, diesel-powered, recovery vehicle based on M88A1 chassis and configured with an A-frame boom, three winches and an upgraded spade. The boom has a 35-ton lift capacity and the main winch has a constant pull capacity of 70 tons. The hull is armored for protection against small arms fire, artillery fragments and anti-personnel mines. The vehicle mounts a caliber 50 machine gun for self-protection. The M88A2 HERCULES is the only single recovery vehicle capable of performing recovery, evacuation and limited repair of the Abrams main battle tank.

Justification:

The FY2009 Global War on Terrorism (GWOT) funds Operational Block Improvements (17.6 Million) and procures 81 M88A2 HERCULES (219.2 Million) utilizing the existing M88A1 chassis as the base vehicle with an auxiliary winch, constant pull main recovery winch, new hoist/boom, a new final drive and new brake, track and suspension systems increasing the horsepower, brake/steering, winch, lift and suspension characteristics which will allow the safe recovery of Abrams tanks and other 70 ton combat vehicles. Fulfills the Heavy Brigade Combat Team (HBCT) Army's Campaign Plan modularity objectives. The fielded M88A1 lacks the necessary horsepower and braking to safely support the recovery of the Abrams fleet. Improvements incorporated into HERCULES fix these operational shortcomings. In addition, the increased winching and lifting capability accommodates all Abrams variants including the 70 ton M1A2 System Enhancement Program (SEP). Without the improvements incorporated in the M88A2 HERCULES, units must use two recovery vehicles to perform the spectrum of recovery missions.

	OIF	OEF	TOTAL
FY2009 Total Requirement	\$236.800 Million	\$0.000 Million	\$236.800 Million
FY2009 Bridge Enacted	\$ 0.000 Million	\$0.000 Million	\$ 0.000 Million
FY2009 Remaining GWOT Request	\$236.800 Million	\$0.000 Million	\$236.800 Million

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles		P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88A2 HERCULES) (GA0570)			Weapon System Type:		Date: February 2009		
WTCV Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000
FY09 GWOT Request											
Vehicle Manufacturing - Contractor		A							188221	81	2324
Vehicle Manufacturing - GFE		A							8548		
Contractor Engineering		A							8937		
Contractor Engr - Repower Retrofit		A									
Engineering Change Orders		A							592		
Transportation		A							1620		
Fielding (TPF & NET)		A							729		
Testing (incl analysis & development)		A							1300		
Depot Maintenance - Premodification		A							9303		
Operational Block Improvements		A							17550		
FY09 GWOT Request TOTAL									236800		
Total:									236800		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:		P-1 Line Item Nomenclature: IMPROVED RECOVERY VEHICLE (M88A2 HERCULES) (GA0570)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Vehicle Manufacturing - Contractor FY 2009 GWOT	BAE Systems York, PA	SS-FP	TACOM	Jul 09	Sep 10	81	2324	Yes		Nov 08

REMARKS:

FY 11 / 12 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE IMPROVED RECOVERY VEHICLE (M88A2 HERCULES) (GA0570)	Date: February 2009
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COST ELEMENTS						Fiscal Year 11												Fiscal Year 12												Later																																																																				
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11												Calendar Year 12																																																																																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																																																					
Vehicle Manufacturing - Contractor																																																																																																		
1	FY 09 GWOT	A	81	7	74	7	7	6	7	7	7	7	7	7	6	6																	0																																																																	
Total																																																																																																		
<table border="0" style="width:100%;"> <tr> <td style="width: 20%;"></td> </tr> <tr> <td></td> <td></td> <td></td> <td>81</td> <td>7</td> <td>74</td> <td>7</td> <td>7</td> <td>6</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>6</td> <td>6</td> <td></td> </tr> </table>																																																																			81	7	74	7	7	6	7	7	7	7	7	7	6	6																		
			81	7	74	7	7	6	7	7	7	7	7	7	6	6																																																																																		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	BAE Systems, York, PA	24	132	264	2	1	Initial	0	10	14	24	
							Reorder	0	0	0	0	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet

Date: February 2009

Appropriation / Budget Activity / Serial No:
Procurement of W&TCV, Army / 1 / Tracked combat vehicles

P-1 Item Nomenclature
M1 ABRAMS TANK (MOD) (GA0700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost				378.0						378.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				378.0						378.0
Initial Spares										
Total Proc Cost				378.0						378.0
Flyaway U/C										
Weapon System Proc U/C										

Description:

The Abrams Tank Fleet Modification program applies Materiel Developer and Combat Developer approved modifications to the fielded Abrams family of vehicles and the Abrams Integrated Management (AIM) RECAP Program. Unique M1A1 Situational Awareness (SA) improvements include Block I Forward Looking InfraRed (FLIR) and Far Target Locate. Lethality improvements include Stabilized Commander's Weapon Station (SCWS) for the M1A1 SA and Commander's Remote Weapon Stations (CROWS II) for the M1A2 SEP. Common Abrams modifications include Blue Force Tracking (BFT), which is a digital Command and Control system that gives Army commanders across the battlefield current information about their location relative to friendly forces. Power Train Improvement & Integration Optimization Program (i.e. Total Integrated Engine Revitalization (TIGER) and Transmission Enterprise) provides more reliability, durability and a single standard for the vehicle's power train. Survivability improvements include Frontal Armor and Turret Side Armor upgrades. Tank Urban Survivability Kit (TUSK) is an add on kit that increases crew survivability in urban environments. Key safety improvements include the loaders tray modification and ammunition rack upgrades.

Justification:

The FY 2009 Global War On Terrorism (GWOT) funds procure TUSK items such as Stabilized Commander's Weapon Stations (SCWS) for the M1A1 SA, CROWS II for the M1A2 SEP vehicles, and Abrams Reactive Armor Tile (ARAT) skirts and rails.

**FY 2009 Enacted Bridge not included in the total in the above table.

	OIF	OEF	TOTAL
FY2009 Total Requirement	\$394.400 Million	\$31.500 Million	\$425.900 Million
FY2009 Bridge Enacted**	\$ 47.900 Million	\$ 0.000 Million	\$ 47.900 Million
FY2009 Remaining GWOT Request	\$346.500 Million	\$31.500 Million	\$378.000 Million

Exhibit P-40M, Budget Item Justification Sheet

Date: February 2009

Appropriation / Budget Activity / Serial No:
Procurement of W&TCV, Army / 1 / Tracked combat vehicles

P-1 Item Nomenclature
M1 ABRAMS TANK (MOD) (GA0700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
Situational Awareness/Tank Urban Survivability Kit											
2-04-05-0012	Operational	0.0	0.0	0.0	378.0	0.0	0.0	0.0	0.0	0.0	378.0
Totals		0.0	0.0	0.0	378.0	0.0	0.0	0.0	0.0	0.0	378.0

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: Situational Awareness/Tank Urban Survivability Kit [MOD 1] 2-04-05-0012

MODELS OF SYSTEM AFFECTED: M1A1

DESCRIPTION / JUSTIFICATION:

From lessons learned during Operation Iraqi Freedom (OIF), some of the M1A2 Systems Enhancement Program (SEP) technologies are being inserted into the M1A1 tank fleet. Integration of the Second Generation Forward Looking InfraRed (FLIR) into the Gunner's Primary Sight provides a leap-ahead target acquisition capability; Far Target Locate (FTL) will improve lethality by calculating the grid coordinates of a lased target; Improved Driver's Sight capability will improve mobility during periods of degraded visibility and darkness; and the 50 caliber Thermal Sight will allow the tank commander to view or engage the 50 caliber machine gun, day or night. Other lessons learned lead to the development of the Tank Urban Survivability Kit (TUSK) and the Counter Improvised Explosive Device (CIED) Kits. Components of these kits will be integrated into the Abrams Family of Vehicles (FOV). Quantities are not listed as they will vary depending on individual tank configuration. Contract dates will likely also vary by item and cannot be predicted.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Various - Milestones differ for individual Modifications noted above.
Installation dollars included in contractor costs and not broken out separately.

Installation Schedule

	Pr Yr Totals	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: Contractor **ADMINISTRATIVE LEADTIME:** 0 months **PRODUCTION LEADTIME:** 0 months
Contract Dates: FY 2008 - FY 2009 - FY 2010 -
Delivery Dates: FY 2008 - FY 2009 - FY 2010 -

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE (cont): Situational Awareness/Tank Urban Survivability Kit [MOD 1] 2-04-05-0012

FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
Procurement																					
FY09 Base:																					
Installation Kits																					
TUSK Installation Kits								378.0													378.0
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Installation of Hardware																					
FY 2005 & Prior Equip -- Kits																					
FY 2006 -- Kits																					
FY 2007 Equip -- Kits																					
FY 2008 Equip -- Kits																					
FY 2009 Equip -- Kits																					
FY 2010 Equip -- Kits																					
FY 2011 Equip -- Kits																					
FY 2012 Equip -- Kits																					
TC Equip- Kits																					
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total Procurement Cost		0.0		0.0		0.0		378.0		0.0		0.0		0.0		0.0		0.0		0.0	378.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 2009

Appropriation / Budget Activity / Serial No:
Procurement of W&TCV, Army / 1 / Tracked combat vehicles

P-1 Item Nomenclature
ABRAMS UPGRADE PROGRAM (GA0750)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				24						24
Gross Cost				100.0						100.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				100.0						100.0
Initial Spares										
Total Proc Cost				100.0						100.0
Flyaway U/C										
Weapon System Proc U/C				4.2						4.2

Description:

This program upgrades M1/M1A1 tanks to the M1A2 System Enhancement Program (SEP) configuration. Therefore, for each M1A2 SEP produced, there will be a corresponding decrease in the Army's M1/M1A1 inventory. The Abrams Upgrade Program will upgrade the tanks' survivability, automotive power pack, computer systems, and night vision capabilities. The M1A2 SEP has improved microprocessors; color flat panel displays, improved memory capacity, better Soldier-Machine Interface (SMI), and a new open operating system designed to run the Common Operating Environment (COE) software. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the M1A2 SEP tank include the improved thermal imaging capabilities of the new Block I 2nd Generation (GEN) Forward Looking Infra-Red (FLIR) technology. The M1A2 SEP has improved frontal and side armor for enhanced crew survivability. The M1A2 SEP is also equipped with the Total Integrated Revitalization (TIGER) engine and upgraded transmission for improved automotive reliability and durability.

Justification:

FY 2009 Global War On Terrorism (GWOT) funds 24 Abrams Upgrade M1A2 SEP vehicles to meet the demand of battle loss replacements.

**FY 2009 Enacted Bridge not included in the total in the above table.

	OIF	OEF	TOTAL
FY2009 Total Requirement	\$230.400 Million	\$0.000 Million	\$230.400 Million
FY2009 Bridge Enacted**	\$130.400 Million	\$0.000 Million	\$130.400 Million
FY2009 Remaining GWOT Request	\$100.000 Million	\$0.000 Million	\$100.000 Million

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 1 / Tracked combat vehicles			P-1 Line Item Nomenclature: ABRAMS UPGRADE PROGRAM (GA0750)			Weapon System Type:		Date: February 2009	
WTCV Cost Elements		ID	FY 07			FY 08			FY 09		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
FY 2009 GWOT Request		A									
Basic Vehicle									68100	24	2838
FLIR									8547	24	356
GFE									3327		
Depot Maint Pre-Mod									18757	24	782
STS, TPF, ST&TS, Gov't Spt									1269		
Subtotal GWOT Request								100000			
Total:								100000			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 1/ Tracked combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: ABRAMS UPGRADE PROGRAM (GA0750)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Basic Vehicle FY 2009 GWOT	Joint Service Mfg Corp Lima, OH	SS/FP/M5	TACOM - Warren	Aug 09	Oct 11	24	2838	Yes		
FLIR FY 2009 GWOT	Raytheon McKinney, TX	SS/CPFF	CECOM - Picatinny	Aug 09	Mar 11	24	356	NA		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet	Date: February 2009
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M240 Medium Machine Gun (7.62mm) (G13000)
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Program Elements for Code B Items:	Code: A	Other Related Program Elements:
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	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				2909						2909
Gross Cost				22.8						22.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				22.8						22.8
Initial Spares										
Total Proc Cost				22.8						22.8
Flyaway U/C										
Weapon System Proc U/C										

Description:
This program procures M240 class machine guns in different configurations for various applications. The M240B Machine Gun is a ground version of the original 7.62mm M240 Machine Gun intended to replace the M60 series Machine Gun in Light Infantry, Mechanized Infantry, and Combat Engineer units. The M240B Machine Gun is an air-cooled, link-belt fed, and gas-operated weapon. The weapon features fixed head space, which permits rapid changing of the barrels. The M240B also includes: a flash suppressor, front sight, carrying handle for the barrel, buttstock, pistol grip, bipod, heat shield, and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjunction with a traversing and elevating mechanism and a mount pintle. The M240H is a variant of the same family of Machine Guns and will be employed as the defensive armament subsystem for the UH-60 Black Hawk and CH-47 Chinook Helicopters. The M240H will use the same receiver and barrel as the M240B, but has a spade grip trigger assembly. It also requires a unique mounting interface and pintle to properly interface with the helicopter platform. Also included with the system will be an egress kit to allow the weapon to be converted for a ground defensive role in the event the helicopter is downed. The lighter weight M240E6 (FY2008 New Start) will replace the M240B in Special Forces/Rangers, Light Infantry, and Airborne units. The M240E6 will significantly reduce the weight of the current M240B while maintaining the same level of reliability. This weight reduction will be accomplished through the use of lightweight materials and innovative manufacturing techniques.

Justification:
FY2009 Global War on Terrorism (GWOT) funds 2,909 new M240B's. Funds are requested to prosecute the GWOT by resetting items, replacing battle losses, generating and protecting forces, and enhancing military capabilities.

	OIF	OEF	TOTAL
FY2009 Total Requirement	\$13.702 Million	\$9.135 Million	\$22.837 Million
FY2009 Bridge Enacted	\$ 0.000 Million	\$0.000 Million	\$ 0.000 Million
FY2009 Remaining GWOT Request	\$13.702 Million	\$9.135 Million	\$22.837 Million

Exhibit P-5, Weapon WTCV Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Line Item Nomenclature: M240 Medium Machine Gun (7.62mm) (G13000)			Weapon System Type:	Date: February 2009					
WTCV Cost Elements		ID	FY 07			FY 08			FY 09		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FY09 Hardware GWOT Request 1. Hardware (Infantry Version -M240B) 2. Production Support (ILS, NET, TPF, FDT, Eng Spt) Total:		A							22467	2909	8
								370			
								22837			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles			Weapon System Type:		P-1 Line Item Nomenclature: M240 Medium Machine Gun (7.62mm) (G13000)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY09 Hardware GWOT Request FY 2009 GWOT	TBS TBS	Option	TACOM-RI, Rock Island, IL	Aug 09	Feb 11	2909	8	Yes		

REMARKS:

FY 10 / 11 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE M240 Medium Machine Gun (7.62mm) (G13000)	Date: February 2009
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

FY09 Hardware GWOT Request																												
1	FY 09 GWOT	A	2909	0	2909																							
Total						2909		2909																				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	TBS, TBS	1200	3500	10500		1	Initial	3	1	15	16	
							Reorder	3	11	18	29	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 12 / 13 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE M240 Medium Machine Gun (7.62mm) (G13000)	Date: February 2009
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COST ELEMENTS						Fiscal Year 12														Fiscal Year 13										Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 12														Calendar Year 13										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

FY09 Hardware GWOT Request																															
1	FY 09 GWOT	A	2909	1500	1409	350	350	350	359																						0
Total						2909	1500	1409	350	350	350	359																			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	TBS, TBS	1200	3500	10500		1	Initial	3	1	15	16	
							Reorder	3	11	18	29	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

Exhibit P-40, Budget Item Justification Sheet							Date: February 2009			
Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles					P-1 Item Nomenclature Common Remotely Operated Weapons Station (CROWS) (G04700)					
Program Elements for Code B Items:			Code: A		Other Related Program Elements:					
	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				1215						1215
Gross Cost				279.5						279.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				279.5						279.5
Initial Spares										
Total Proc Cost				279.5						279.5
Flyaway U/C										
Weapon System Proc U/C										
Description:										
The Common Remotely Operated Weapon Station (CROWS) is a mount that provides the capability to remotely operate all standard U.S. Army machine guns (i.e., M2 Heavy Barrel Machine Guns, MK-19 Grenade Machine Guns, M240B Medium Machine Guns and M249 Squad Automatic Weapons) on an Up-Armored High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) and a variety of other vehicles. The CROWS system includes a two-axis stabilized mount, a sensor suite with fire control software, and a vehicle integration kit. Planned product improvements include integration with other vehicles including the M1A2 Main Battle Tank, the M93 FOX Recon Vehicle, the M1117 Armored Security Vehicle, and the M113 Armored Personnel Carrier. CROWS permits the gunner to manipulate the sight and weapon from under armor using a hand controller and a flat panel display. Missions can be carried out under conditions of varying visibility via the day camera or second generation Forward Looking Infrared (FLIR) camera. The laser range finder and two-axis stabilization allows for accurate fire on the move at speeds up to 15 miles per hour.										
Justification:										
The FY2009 Global War on Terrorism (GWOT) funds the procurement of 1215 CROWS. Funds are requested to prosecute the GWOT by resetting items, replacing battle losses, generating and protecting forces, and enhancing military capabilities.										
	OIF	OEF	TOTAL							
FY2009 Total Requirement	\$220.000 Million	\$59.500 Million	\$279.500 Million							
FY2009 Bridge Enacted	\$ 0.000 Million	\$ 0.000 Million	\$ 0.000 Million							
FY2009 Remaining GWOT Request	\$220.000 Million	\$59.500 Million	\$279.500 Million							

Exhibit P-5, Weapon WTCV Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles			P-1 Line Item Nomenclature: Common Remotely Operated Weapons Station (CROWS) (G04700)			Weapon System Type:		Date: February 2009	
WTCV Cost Elements		ID	FY 07			FY 08			FY 09		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
HARDWARE - GWOT											
CROWS system		A							237775	1215	196
Vehicle Integration Kit									3675	1215	3
Engineering Support									9459		
Integrated Logistics Support									4043		
Total Package Fielding									5600		
Safety Confirmation Test									1000		
First Destination Transportation									123		
Contractor Field Service Representatives									2202		
Spares/Repair Parts									12123		
New Equipment Training									3500		
Unit Price is propriety under the provisions of Executive Order 12600											
Total:									279500		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2009

Appropriation/Budget Activity/Serial No: Procurement of W&TCV, Army/ 2/ Weapons and other combat vehicles		Weapon System Type:	P-1 Line Item Nomenclature: Common Remotely Operated Weapons Station (CROWS) (G04700)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
CROWS system FY 2009 GWOT	Kongsberg Defense & Aerospace Johnstown, PA	Option	TACOM, Picatinny, NJ	Sep 09	Feb 10	1215	196	Yes		
Vehicle Integration Kit FY 2009 GWOT	Micor Industries Decatur, AL	Option	TACOM, Picatinny, NJ	Sep 09	Jan 10	1215	3	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet	Date: February 2009
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M2 50 Cal Machine Gun MODS (GB4000)
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Program Elements for Code B Items: 604601A S58	Code: B	Other Related Program Elements:
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	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost				12.5						12.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				12.5						12.5
Initial Spares										
Total Proc Cost				12.5						12.5
Flyaway U/C										
Weapon System Proc U/C										

Description:
The M2A1 Quick Change Barrel (QCB) Kit provides enhancements for the .50 Caliber M2 Heavy Barrel Machine Gun to provide the Soldier with the ability to quickly change the barrel without the need to reset the headspace and timing and reduce the visible muzzle flash. The M2A1 QCB Kit will be added to the current M2 on a one for one basis. Also provides other ancillary equipment such as the M3 Tripod, the new Light Weight Tripod and improved sighting systems.

Justification:
FY09 Global War on Terrorism (GWOT) funds 995 M2A1 Quick Change Barrel Kits and 2,900 Lightweight Tripods for the M2 Machine Gun. Funds are requested to prosecute the GWOT by resetting items, replacing battle losses, generating and protecting forces, and enhancing military capabilities.

	OIF	OEF	TOTAL
FY2009 Total Requirement	\$7.500 Million	\$5.000 Million	\$12.500 Million
FY2009 Bridge Enacted	\$0.000 Million	\$0.000 Million	\$ 0.000 Million
FY2009 Remaining GWOT Request	\$7.500 Million	\$5.000 Million	\$12.500 Million

Exhibit P-40M, Budget Item Justification Sheet	Date: February 2009
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Appropriation / Budget Activity / Serial No: Procurement of W&TCV, Army / 2 / Weapons and other combat vehicles	P-1 Item Nomenclature M2 50 Cal Machine Gun MODS (GB4000)
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Program Elements for Code B Items: 604601A S58	Code: B	Other Related Program Elements:
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Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	TC	Total
FY09 GWOT											
TBD1	Operational	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	12.5
Totals		0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	12.5

INDIVIDUAL MODIFICATION

Date: February 2009

MODIFICATION TITLE: FY09 GWOT [MOD 1] TBD1

MODELS OF SYSTEM AFFECTED: M2 Machine Gun

DESCRIPTION / JUSTIFICATION:

The M2A1 Quick Change Barrel Kit provides enhancements for the .50 Caliber M2 Heavy Barrel Machine Gun to provide the Soldier with the ability to quickly change the barrel without the need to reset the headspace and timing, and to reduce the visible muzzle flash. Other ancillary equipment includes the M3 Tripod, the Lightweight Tripod and Mount, and improved sighting systems.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

User Assessment 2Q08 (Actual)
 Type Classification - Standard 2Q09 (Planned)
 First Unit Equipped 4Q09 (Planned)

Installation Schedule

Pr Yr	FY 2007				FY 2008				FY 2009				FY 2010				FY 2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals												450	545							
Inputs																				
Outputs															600	395				

	FY 2012				FY 2013				FY 2014				FY 2015				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					995
Outputs																					995

METHOD OF IMPLEMENTATION: Depot Installed ADMINISTRATIVE LEADTIME: 12 months PRODUCTION LEADTIME: 9 months

Contract Dates: FY 2008 - FY 2009 - Sep 09 FY 2010 -

Delivery Dates: FY 2008 - FY 2009 - Jun 10 FY 2010 -

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FINANCIAL PLAN: (\$ in Millions)

	Prior Yrs.		2007		2008		2009		2010		2011		2012		2013		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
QCB Kit Quantity							995												995	
Hardware QCB Kits								6.0												6.0
Engineering Support								0.2												0.2
Testing																				
Integrated Logistics Support								0.1												0.1
Fielding								0.2												0.2
Ancillary Equipment								6.0												6.0
Installation of Hardware																				
FY 2006 & Prior Equip -- Kits																				
FY 2007 -- Kits																				
FY 2008 Equip -- Kits																				
FY 2009 Equip -- Kits									995										995	
FY 2010 Equip -- Kits																				
FY 2011 Equip -- Kits																				
FY 2012 Equip -- Kits																				
FY 2013 Equip -- Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	995	0.0	0	0.0	0	0.0	0	0.0	0	0.0	995	0.0
Total Procurement Cost		0.0		0.0		0.0		12.5		0.0		0.0		0.0		0.0		0.0		12.5